

Task History

Initiating Search

August 14, 2025, 11:19 AM

Search:

Filtered By:

Yield: Reaction Mapping: 90-100%, 80-89%, 70-79% Mapping Data Available

Catalyst: Palladium diacetate,

Tris(dibenzylideneacetone)dipalladium, Palladium, tris[μ -[(1,2- η :4,5- η)-(1E,4E)-1,5-diphenyl-1,4-pentadien-3-one]]di-, compd. with trichloromethane (1:1), Palladium, [7,9-bis[2,6-bis(1-methylethyl)phenyl]-7,9-dihydro-8H-acenaphth[1,2-d]imidazol-8-ylidene]bromo[2-(4,5-dihydro-4,4-

dimethyl-2-oxazolyl-κ N^3)-1-naphthalenyl-

к*C*]-, (SP-4-4)-, Bis(tri-tert-

butylphosphine)palladium, Palladium, Palladium, bromo[dicyclohexyl[3-(1,1-dimethylethoxy)-6-methoxy-2',6'-bis(1-methylethyl)[1,1'-biphenyl]-2-yl- $\kappa \mathcal{L}^{1}$]phosphine- κP][4-[[2-

(trimethylsilyl)ethoxy]carbonyl]phenyl]-, (*SP*-4-2)-, Stereoisomer of [(4 *S*,5*S*)-1,3-bis[2,6-bis(1-methylethyl)phenyl]-4,5-

diphenyl-2-

imidazolidinylidene]chloro[(1,2,3-η)-1-phenyl-2-propen-1-yl]palladium

Document

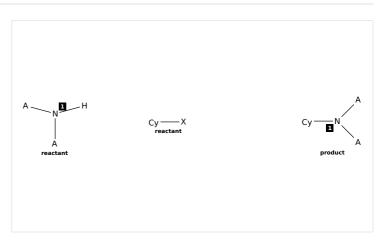
Type:

Publication

2023 to 2024

Journal

Year:



Structure Match: Substructure

Search Tasks

Task	Result Type	View
Exported: Returned Reaction Results + Filters (1,278)	■ Reactions	View Results

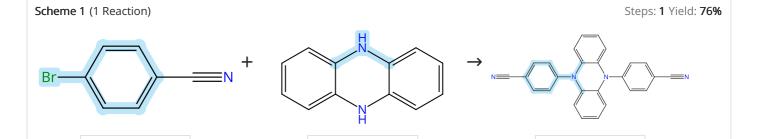
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Reactions (100)

View in CAS SciFinder



📜 Suppliers (62)

Steps: 1 Yield: 76%

31-614-CAS-36922435

1.1 Reagents: Potassium carbonate

Catalysts: Palladium diacetate, Tri-tert-butylphosphine

Solvents: Toluene; 24 h, reflux

Suppliers (93)

Experimental Protocols

Molecular design of phenazine-5,10-diyl-dibenzonitriles and the impact on their thermally activated delayed fluorescence properties

📜 Suppliers (26)

By: Pueschel, Dietrich; et al

Journal of Materials Chemistry C: Materials for Optical and Electronic Devices (2023), 11(26), 8982-8991.



31-614-CAS-35114301

Steps: 1 Yield: 76% Reagents: Potassium tert-butoxide, Tri-tert-butylphosphine

Catalysts: Tris(dibenzylideneacetone)dipalladium

Solvents: Toluene; 15 min, rt

1.2 Reagents: Tri-tert-butylphosphine Solvents: Toluene; 18 h, 110 °C

Experimental Protocols

A general arene C-H functionalization strategy via electron donor-acceptor complex photoactivation

By: Dewanji, Abhishek; et al

Nature Chemistry (2023), 15(1), 43-52.



Steps: 1 Yield: 76%

31-614-CAS-35774671

Steps: 1 Yield: 76%

Reagents: Lithium bis(trimethylsilyl)amide Catalysts: Tris(dibenzylideneacetone)dipalladium, [2',6'-Bis(1-

methylethoxy)[1,1'-biphenyl]-2-yl]dicyclohexylphosphine

Solvents: 1,4-Dioxane; rt; 24 h, 100 °C

Experimental Protocols

Machine-Learning Classification for the Prediction of Catalytic Activity of Organic Photosensitizers in the Nickel(II)-Salt-**Induced Synthesis of Phenols**

By: Noto, Naoki; et al

Angewandte Chemie, International Edition (2023), 62(11), e202219107.

Scheme 4 (1 Reaction)

Suppliers (77) Suppliers (85) Suppliers (4)

31-614-CAS-36413341

Steps: 1 Yield: 76%

Solvents: Dimethylformamide; overnight, 60 °C

1.2 Reagents: Hydrogen Catalysts: Palladium Solvents: Methanol; 3 h, rt

Reagents: Potassium carbonate

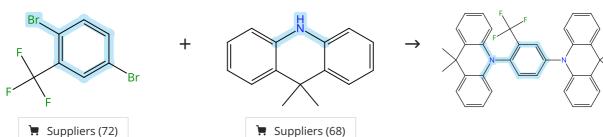
Experimental Protocols

Design, Synthesis, and Evaluation of (R)-8-((Tetrahydrofuran-2-yl)methyl)pyrido[2,3-d]pyrimidin-7-ones as Novel Selective ACK1 Inhibitors to Combat Acquired Resistance to the Third-Generation EGFR Inhibitor

By: Li, Qian; et al

Journal of Medicinal Chemistry (2023), 66(10), 6905-6921.

Scheme 5 (1 Reaction)



31-614-CAS-43376620

Steps: 1 Yield: 76%

Reagents: Sodium tert-butoxide

Catalysts: Tris(dibenzylideneacetone)dipalladium, X-Phos

Solvents: Toluene; 10 - 30 min, 150 °C

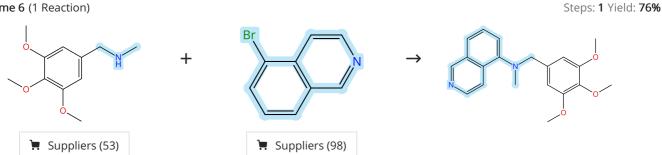
Experimental Protocols

Microwave-Assisted Buchwald-Hartwig Double Amination: A Rapid and Promising Approach for the Synthesis of TADF Compounds

By: Mohd Jamel, Nor Shafiq; et al

ACS Omega (2024), 9(51), 50446-50457.

Scheme 6 (1 Reaction)



31-614-CAS-43159476

Steps: 1 Yield: 76%

1.1 Reagents: Sodium tert-butoxide

Catalysts: Tris(dibenzylideneacetone)dipalladium, 1,1'-(9,9-Dimethyl-9*H*-xanthene-4,5-diyl)bis[1,1-diphenylphosphine]

Solvents: 1,4-Dioxane; rt → 90 °C; 24 h, 90 °C

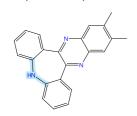
Experimental Protocols

Ruthenium-Catalyzed Carbocycle-Selective Hydrogenation of Fused Heteroarenes

By: Luo, Chenguang; et al

Journal of the American Chemical Society (2024), 146(51), 35043-35056.

Scheme 7 (1 Reaction)



📜 Suppliers (83)

31-614-CAS-36261971

Steps: 1 Yield: 75%

1.1 **Reagents:** Sodium *tert*-butoxide

Catalysts: Palladium diacetate, Tri-tert-butylphosphonium

tetrafluoroborate

Solvents: Toluene; overnight, 105 °C

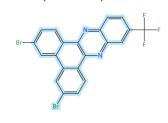
Experimental Protocols

V-shaped donor-acceptor organic emitters. A new approach towards efficient TADF OLED devices

By: Derkowski, Wojciech; et al

Chemical Communications (Cambridge, United Kingdom) (2023), 59(19), 2815-2818.

Scheme 8 (1 Reaction)



+

📜 Suppliers (96)



31-614-CAS-43376637

Steps: 1 Yield: 75%

1.1 **Reagents:** Sodium *tert*-butoxide

Catalysts: Tris(dibenzylideneacetone)dipalladium, X-Phos

Solvents: Toluene; 30 min, 130 °C

Experimental Protocols

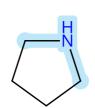
Microwave-Assisted Buchwald-Hartwig Double Amination: A Rapid and Promising Approach for the Synthesis of TADF Compounds

By: Mohd Jamel, Nor Shafiq; et al

ACS Omega (2024), 9(51), 50446-50457.

Scheme 9 (1 Reaction)





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📜 Suppliers (74)

Steps: 1 Yield: 75%

1.1 Reagents: Sodium tert-butoxide, 2'-(Dicyclohexylphosphino)-

N,N-dimethyl[1,1'-biphenyl]-2-amine

Catalysts: Tris(dibenzylideneacetone)dipalladium

Solvents: Toluene; rt; 16 h, 95 °C

1.2 Reagents: Ammonium chloride

Solvents: Water

Experimental Protocols

Iron-Catalyzed Synthesis of Conformationally Restricted Bicyclic N-Heterocycles via [2+2]-Cycloaddition: Exploring Ring Expansion-Mechanistic Insights and Challenges

By: Hertwig, Leif E.; et al

ACS Catalysis (2023), 13(9), 6416-6429.

Scheme 10 (1 Reaction)

$$\rightarrow$$

N-O

Double bond geometry shown

31-614-CAS-40129215

1.1 Catalysts: Palladium diacetate, (-)-BINAP

Solvents: Toluene; 20 min, rt

1.2 Reagents: Cesium carbonate Solvents: Toluene; 5 min, rt

1.3 5 min, rt; 18 h, 60 °C

Experimental Protocols

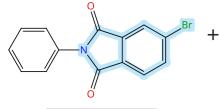
Steps: **1** Yield: **75%**

Pd-Catalyzed Asymmetric Amination of Enamines: Expedient Synthesis of Structurally Diverse N-C Atropisomers

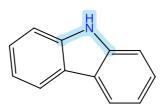
By: Zhang, Peng; et al

ACS Catalysis (2023), 13(11), 7680-7690.

Scheme 11 (1 Reaction)



Suppliers (32)

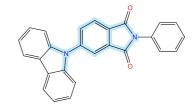


Suppliers (109)

Steps: 1 Yield: 75%

Steps: **1** Yield: **75%**

Steps: 1 Yield: 75%



Isomer and substituent engineering of TADF emitters toward tunable room-temperature phosphorescence

By: Feng, Quanyou; et al

Chemical Engineering Journal (Amsterdam, Netherlands) (2023), 471, 144352.

31-614-CAS-37385835

1.1 Reagents: Sodium tert-butoxide

Catalysts: Palladium diacetate, Tri-tert-butylphosphonium

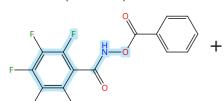
tetrafluoroborate

Solvents: Toluene; 24 h, 120 °C; 120 °C → rt

1.2 Solvents: Water; rt

Experimental Protocols

Scheme 12 (1 Reaction)



Br E

Double bond geometry shown



Double bond geometry shown

Steps: 1 Yield: 75%

1.1 Reagents: Cesium carbonate

Catalysts: 2,2'-Bipyridine, Tris(dibenzylideneacetone)dipall

adium

Solvents: Tetrahydrofuran; 24 h, 50 °C

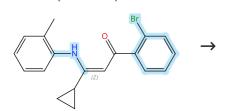
Experimental Protocols

[3+2] Cycloaddition of Vinyl Cyclopropane and Hydroxy lamines via Isocynate Intermediate to y-Lactams

By: Huang, Xiaobing; et al

Chinese Journal of Chemistry (2023), 41(16), 1937-1942.

Scheme 13 (1 Reaction)



Double bond geometry shown

31-614-CAS-40129296

Steps: **1** Yield: **75%**

1.1 Reagents: Potassium carbonate, Sodium hydroxide Catalysts: Palladium diacetate, (-)-BINAP Solvents: Toluene, 1,4-Dioxane; 18 h, 60 °C

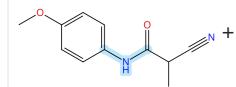
Experimental Protocols

Pd-Catalyzed Asymmetric Amination of Enamines: Expedient Synthesis of Structurally Diverse N-C Atropisomers

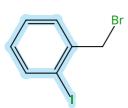
By: Zhang, Peng; et al

ACS Catalysis (2023), 13(11), 7680-7690.

Scheme 14 (1 Reaction)







📜 Suppliers (68)

Steps: 1 Yield: 75%

Steps: **1** Yield: **75%**

Steps: 1 Yield: 75%

31-614-CAS-39519123

1.1 Reagents: Cesium carbonate

Solvents: 1,4-Dioxane; 2 h, 110 °C

1.2 **Catalysts:** Palladium diacetate, 1,1'-(9,9-Dimethyl-9*H*-xanthene-4,5-diyl)bis[1,1-diphenylphosphine] **Solvents:** 1,4-Dioxane; overnight, 110 °C

1.3 Reagents: Ammonium chloride Solvents: Water

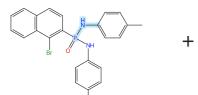
Experimental Protocols

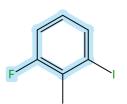
Synthesis of highly functionalized dihydroquinolinones via a tandem benzylation/intramolecular C-N coupling strategy

By: Gao, Pei-Sen; et al

Tetrahedron (2024), 155, 133865.

Scheme 15 (1 Reaction)





Suppliers (67)

Steps: 1 Yield: 75%



Absolute stereochemistry shown

Steps: 1 Yield: 75%

1.1 Reagents: Potassium carbonate

Catalysts: Palladium diacetate, Tris(2-furyl)phosphine, Bicyclo [2.2.1]hept-2-ene-2-carboxylic acid, methyl ester, (1 *R*,4 *R*)-

Solvents: Acetonitrile; 12 h, 100 °C

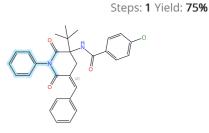
Experimental Protocols

Solvent-Controlled Enantiodivergent Construction of P(V)-Stereogenic Molecules via Palladium-Catalyzed Annulation of Prochiral N-Aryl Phosphonamides with Aromatic Iodides

By: Tian, Qingyu; et al

Angewandte Chemie, International Edition (2024), 63(41), e202409366.

Scheme 16 (1 Reaction)



Double bond geometry shown

31-614-CAS-35547330

1.1 Catalysts: 1,1-Bis(diphenylphosphino)ferrocene, Tris (dibenzylideneacetone)dipalladium Solvents: Dichloromethane; 24 h, 40 °C

Experimental Protocols

Steps: **1** Yield: **75%**

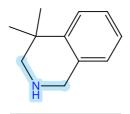
Palladium-catalyzed [4 + 2] cycload dition of amido-tethered allylic carbonates with oxazol-5-(4H)-ones: synthesis of piperi dine-2,6-dione derivatives

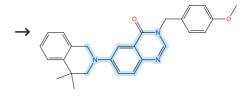
By: Wang, Lan; et al

Organic Chemistry Frontiers (2023), 10(3), 813-818.

Scheme 17 (1 Reaction)







📜 Suppliers (48)

Steps: 1 Yield: 75%

31-614-CAS-38625340

1.1 Reagents: Cesium carbonate

Catalysts: Palladium diacetate, 1,1'-(9,9-Dimethyl-9*H*-xanthene-4,5-diyl)bis[1,1-diphenylphosphine]

Solvents: 1,4-Dioxane; overnight, rt → 90 °C

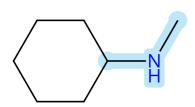
Experimental Protocols

Fragment-Based Screening Identifies New Quinazolinone-Based Inositol Hexakisphosphate Kinase (IP6K) Inhibitors

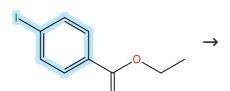
By: Heitmann, Tyler; et al

ACS Medicinal Chemistry Letters (2023), 14(12), 1760-1766.

Scheme 18 (1 Reaction)



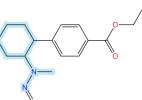
► Suppliers (78)



Suppliers (85)



Steps: 1 Yield: 75%



31-614-CAS-42625416

Steps: 1 Yield: 75%

1.1 Reagents: Isoamyl nitrite; 12 h, 60 °C

1.2 Reagents: Silver tetrafluoroborate

Catalysts: Palladium diacetate, Glycine, N-[(1,6-dihydro-5-

nitro-6-oxo-2-pyridinyl)carbonyl]-, methyl ester

Solvents: 1,1,1,3,3,3-Hexafluoro-2-propanol; 24 h, 100 °C

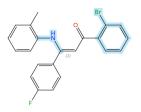
Experimental Protocols

Efficient Construction of β -Arylethylamines via Selective C (sp3)-H Arylation of Aliphatic Amines

By: Tu, Hua; et al

ACS Catalysis (2024), 14(23), 17535-17546.

Scheme 19 (1 Reaction)





Double bond geometry shown

31-614-CAS-40129285

Steps: 1 Yield: 75%

1.1 Reagents: Potassium carbonate, Sodium hydroxide

Catalysts: Palladium diacetate, (-)-BINAP Solvents: Toluene, 1,4-Dioxane; 18 h, 40 °C

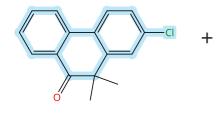
Experimental Protocols

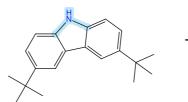
Pd-Catalyzed Asymmetric Amination of Enamines: Expedient Synthesis of Structurally Diverse N-C Atropisomers

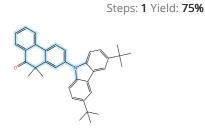
By: Zhang, Peng; et al

ACS Catalysis (2023), 13(11), 7680-7690.

Scheme 20 (1 Reaction)







Suppliers (69)

31-614-CAS-36610941

Steps: 1 Yield: 75%

1.1 **Reagents:** Sodium *tert*-butoxide, Tri-*tert*-butylphosphonium

tetrafluor oborate

Catalysts: Palladium diacetate Solvents: Toluene; 30 h, 150 °C

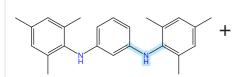
Experimental Protocols

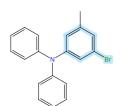
Molecular engineering of locked alkyl aryl carbonyl-based thermally activated delayed fluorescence emitters via a cascade C-H activation process

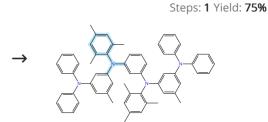
By: Zhang, Yunxi; et al

Chemical Science (2023), 14(19), 5125-5131.

Scheme 21 (1 Reaction)







■ Suppliers (19)

Steps: 1 Yield: 75%

1.1 Reagents: Sodium tert-butoxide

Catalysts: Tris(dibenzylideneacetone)dipalladium, [2',6'-Bis(1-methylethoxy)[1,1'-biphenyl]-2-yl]dicyclohexylphosphine

Solvents: Toluene; overnight, 120 °C

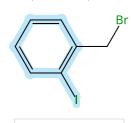
Experimental Protocols

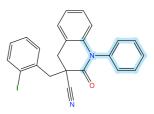
Orienting Group Directed Cascade Borylation for Efficient One-Shot Synthesis of 1,4-BN-Doped Polycyclic Aromatic Hydrocarbons as Narrowband Organic Emitters

By: Wu, Lin; et al

Angewandte Chemie, International Edition (2024), 63(18), e202402020.

Scheme 22 (1 Reaction)





Suppliers (68)

➤ Suppliers (71)

31-614-CAS-39519097

Steps: **1** Yield: **75%**

1.1 Reagents: Cesium carbonate Solvents: 1,4-Dioxane; 1 h, 110 °C

1.2 **Catalysts:** Palladium diacetate, 1,1'-(9,9-Dimethyl-9*H*-xanthene-4,5-diyl)bis[1,1-diphenylphosphine]

Solvents: 1,4-Dioxane; 10 h, 110 °C

1.3 Reagents: Ammonium chloride Solvents: Water

Experimental Protocols

Synthesis of highly functionalized dihydroquinolinones via a tandem benzylation/intramolecular C-N coupling strategy

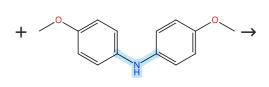
By: Gao, Pei-Sen; et al

Tetrahedron (2024), 155, 133865.

Scheme 23 (1 Reaction)



► Suppliers (67)



► Suppliers (70)

Steps: **1** Yield: **75%**

Steps: 1 Yield: 75%



31-614-CAS-40866795

Steps: 1 Yield: 75%

.1 Reagents: Sodium *tert*-butoxide Catalysts: Palladium diacetate Solvents: 1,4-Dioxane; 24 h, 105 °C

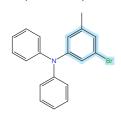
Experimental Protocols

Red phenanthrenequinone dyes with high thermal and photo-stability for LCD color filters

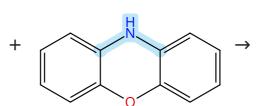
By: Li, Sunfan; et al

Dyes and Pigments (2024), 224, 112023.

Scheme 24 (1 Reaction)

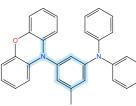


➤ Suppliers (19)



➤ Suppliers (96)





31-614-CAS-41860556

Steps: 1 Yield: 75%

Reagents: Sodium tert-butoxide

Catalysts: Tris(dibenzylideneacetone)dipalladium, Tri-tert-

butylphosphonium tetrafluoroborate Solvents: Toluene; overnight, 110 °C

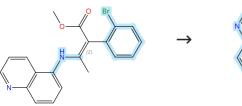
Experimental Protocols

Orienting Group Directed Cascade Borylation for Efficient One-Shot Synthesis of 1,4-BN-Doped Polycyclic Aromatic Hydrocarbons as Narrowband Organic Emitters

By: Wu, Lin; et al

Angewandte Chemie, International Edition (2024), 63(18), e202402020.

Scheme 25 (1 Reaction)



Double bond geometry shown

31-614-CAS-40129210

Steps: 1 Yield: 75%

Pd-Catalyzed Asymmetric Amination of Enamines: Expedient

Catalysts: Palladium diacetate, (-)-BINAP Solvents: Toluene; 20 min, rt

Reagents: Cesium carbonate 1.2 Solvents: Toluene; 5 min, rt

5 min, rt; 18 h, 60 °C

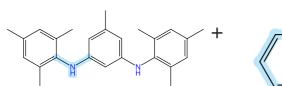
Experimental Protocols

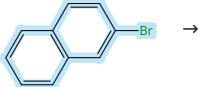
Synthesis of Structurally Diverse N-C Atropisomers

By: Zhang, Peng; et al

ACS Catalysis (2023), 13(11), 7680-7690.

Scheme 26 (1 Reaction)







Suppliers (3)

Suppliers (88)

31-614-CAS-41860576

Steps: 1 Yield: 75%

Reagents: Sodium tert-butoxide

Catalysts: Tris(dibenzylideneacetone)dipalladium, [2',6'-Bis(1methylethoxy)[1,1'-biphenyl]-2-yl]dicyclohexylphosphine

Solvents: Toluene; overnight, 110 °C

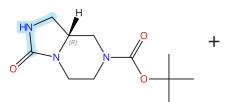
Experimental Protocols

Orienting Group Directed Cascade Borylation for Efficient One-Shot Synthesis of 1,4-BN-Doped Polycyclic Aromatic Hydrocarbons as Narrowband Organic Emitters

By: Wu, Lin; et al

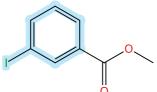
Angewandte Chemie, International Edition (2024), 63(18), e202402020.

Scheme 27 (1 Reaction)

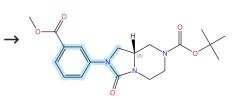


Absolute stereochemistry shown

□ Suppliers (42)



Suppliers (58)



Steps: 1 Yield: 75%

Absolute stereochemistry shown

Steps: 1 Yield: 75%

Steps: 1 Yield: 75%

31-614-CAS-40593940

Steps: 1 Yield: 75%

1.1 Reagents: Cesium carbonate

Catalysts: Palladium diacetate, 1,1'-(9,9-Dimethyl-9*H*-xanthene-4,5-diyl)bis[1,1-diphenylphosphine]
Solvents: 1,4-Dioxane; 5 min, rt; overnight, 90 °C

Experimental Protocols

Discovery of Linvencorvir (RG7907), a Hepatitis B Virus Core Protein Allosteric Modulator, for the Treatment of Chronic HB V Infection

By: Zhang, Weixing; et al

Journal of Medicinal Chemistry (2023), 66(6), 4253-4270.

Scheme 28 (1 Reaction)

Suppliers (38)

31-614-CAS-41716083

Steps: 1 Yield: 75%

1.1 Reagents: Triethylamine

Catalysts: Palladium, tris[μ -[(1,2- η :4,5- η)-(1*E,4E*)-1,5-diphenyl-1,4-pentadien-3-one]]di-, compd. with trichloromethane (1:1), 1,1'-(9,9-Dimethyl-9*H*-xanthene-4,5-diyl)bis[1,1-diphenylp

hosphine]

Solvents: Dichloromethane; 12 h, 25 °C

Experimental Protocols

Pd-catalyzed sequential intramolecular annulation/interm olecular [3+2] cycloaddition of 5-allenyloxazolidine-2,4-diones with dipoles: synthesis of spiroheterocycles

By: Dong, Yujie; et al

Chemical Communications (Cambridge, United Kingdom) (2024), 60(76), 10516-10519.

Scheme 29 (1 Reaction)

+ F Br → Suppliers (83)

Suppliers (79)

Suppliers (2)

31-614-CAS-41429354

1.1 Reagents: Potassium *tert*-butoxide Catalysts: Palladium diacetate, BINAP Solvents: Toluene; 24 h, 100 °C

1.2 **Reagents:** Water

Experimental Protocols

Steps: 1 Yield: 75% Gi

Green approach to the synthesis of α -aminophosphonate-tetrahydroisoquinoline hybrids and their anti-cholinesterase activity

By: Marchan-Garcia, Joaquin; et al

Bioorganic Chemistry (2024), 143, 107008.

Scheme 30 (1 Reaction)

+ Br $N \rightarrow N$

□ Suppliers (88)

Suppliers (93)

Steps: 1 Yield: 75%

Reagents: Sodium tert-butoxide

Catalysts: Tris(dibenzylideneacetone)dipalladium, BINAP

Solvents: Toluene; 12 h, 80 °C; 80 °C → rt

Reagents: Water; rt

Experimental Protocols

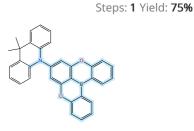
Discovery of (2S)-N-(6-cyano-5-(trifluoromethyl)pyridin-3-yl)-3-(6-(4-cyanophenyl)-3,6-diazabicyclo[3.1.1]heptan-3-yl)-2hydroxy-2-methylpropanamide as a Highly Potent and Selective Topical Androgen Receptor Antagonist for Androg enetic Alopecia Treatment

By: Zhang, Wenqiang; et al

Journal of Medicinal Chemistry (2024), 67(1), 322-348.

Scheme 31 (1 Reaction)





Steps: 1 Yield: 75%

Suppliers (25)

Suppliers (68)

31-614-CAS-39432311

Steps: 1 Yield: 75%

Tunable multimode emission induced by charge transfer and

Reagents: Sodium tert-butoxide

Catalysts: Tri-tert-butylphosphonium tetrafluoroborate

Solvents: Toluene; 15 min, 80 °C

Catalysts: Tris(dibenzylideneacetone)dipalladium; 12 h, 120 °C

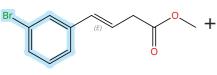
Experimental Protocols

multiple resonance effect

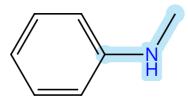
By: Zhang, Fuzheng; et al

Dyes and Pigments (2024), 222, 111902.

Scheme 32 (1 Reaction)



Double bond geometry shown **>** Supplier (1)



Suppliers (69)

31-614-CAS-39786388

Reagents: Hydrogen

Catalysts: Palladium

Solvents: Methanol; overnight, rt

1.2 Reagents: Methylmagnesium bromide

Solvents: Diethyl ether; $rt \rightarrow 0$ °C; 0 °C; 0 °C; 0 °C $\rightarrow rt$;

overnight, rt

1.3 Reagents: Hydrochloric acid

Solvents: Water; rt **Experimental Protocols**

Steps: 1 Yield: 75%

Tertiary Amides as Directing Groups for Enantios elective C-H Amination using Ion-Paired Rhodium Complexes

Angewandte Chemie, International Edition (2024), 63(14), e202317489.

By: Paterson, Kieran J.; et al

Scheme 33 (1 Reaction)

+

Suppliers (3)

Br

> Suppliers (65)

Steps: 1 Yield: 75%

31-614-CAS-41860572

1.1 Reagents: Sodium tert-butoxide

Catalysts: Tris(dibenzylideneacetone)dipalladium, [2',6'-Bis(1-methylethoxy)[1,1'-biphenyl]-2-yl]dicyclohexylphosphine

Solvents: Toluene; overnight, 110 °C

Experimental Protocols

Orienting Group Directed Cascade Borylation for Efficient One-Shot Synthesis of 1,4-BN-Doped Polycyclic Aromatic Hydrocarbons as Narrowband Organic Emitters

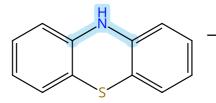
By: Wu, Lin; et al

Angewandte Chemie, International Edition (2024), 63(18), e202402020.

Scheme 34 (1 Reaction)

+ Br

📜 Suppliers (66)



Suppliers (96)

Steps: **1** Yield: **75%**

31-614-CAS-36474312

Steps: 1 Yield: 75%

Reagents: Sodium *tert*-butoxide, Tri-*tert*-butylphosphine Catalysts: Tris(dibenzylideneacetone)dipalladium

Solvents: Xylene; 12 h, 80 °C

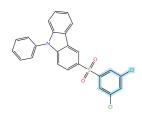
Experimental Protocols

Fluorogenic Phenothiazine-Derivative as Radical Sensors

By: Desoky, Mohamed M. H.

ChemistrySelect (2023), 8(17), e202204638.

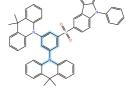
Scheme 35 (1 Reaction)



+

➤ Suppliers (68)

Steps: **1** Yield: **75%**



31-614-CAS-34602567

I.1 Reagents: Sodium tert-butoxide

Catalysts: Palladium diacetate, Tri-tert-butylphosphonium

tetrafluoroborate

Solvents: Toluene; 48 h, 125 °C

Experimental Protocols

Steps: **1** Yield: **75%**

Molecular engineering of blue diphenylsulfone-based emitter with aggregation-enhanced emission and thermally activated delayed fluorescence characteristics: impairing intermo lecular electron-exchange interactions using steric hindrance

By: Huo, Jinnan; et al

Chemical Engineering Journal (Amsterdam, Netherlands) (2023), 452(Part 1), 138957.

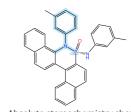
Steps: 1 Yield: 75%

Steps: 1 Yield: 75%

Scheme 36 (1 Reaction)



Steps: 1 Yield: 75%



Suppliers (87)

Absolute stereochemistry shown

31-614-CAS-42232623

1.1 Reagents: Sodium tert-butoxide
 Catalysts: Palladium diacetate, Tris(2-furyl)phosphine, Bicyclo
 [2.2.1]hept-2-ene-2-carboxylic acid, methyl ester, (1 R,4R)-Solvents: Toluene; 12 h, 100 °C

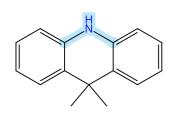
Experimental Protocols

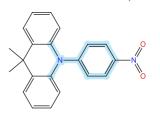
Solvent-Controlled Enantiodivergent Construction of P(V)-Stereogenic Molecules via Palladium-Catalyzed Annulation of Prochiral N-Aryl Phosphonamides with Aromatic Iodides

By: Tian, Qingyu; et al

Angewandte Chemie, International Edition (2024), 63(41), e202409366.

Scheme 37 (1 Reaction)





> Suppliers (68)

📜 Suppliers (76)

31-614-CAS-37097215

1.1 Reagents: Sodium tert-butoxide

Catalysts: Palladium diacetate, Tri-tert-butylphosphonium

tetrafluoroborate

Solvents: Toluene; 24 h, reflux

Experimental Protocols

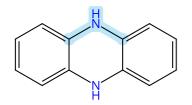
Steps: 1 Yield: 75% Alternating Thermally Activated Delayed Fluorescence Copolymers Featuring Through-Space Charge Transfer

Copolymers Featuring Through-Space Charge Transfer for Efficient Electroluminescence

By: Yu, Maolin; et al

Macromolecules (Washington, DC, United States) (2023), 56(14), 5381-5389.

Scheme 38 (1 Reaction)

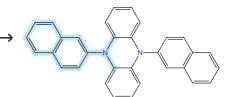


► Suppliers (62)



📜 Suppliers (88)

Steps: 1 Yield: 75%



Suppliers (38)

31-614-CAS-35436069

1.1 **Reagents:** Sodium *tert*-butoxide

Catalysts: Tris(dibenzylideneacetone)dipalladium, Tri-tert-

butylphosphonium tetrafluoroborate Solvents: Toluene; 24 h, rt \rightarrow 115 °C

Experimental Protocols

Aggregation Effect on Multiperformance Improvement in Aryl-Armed Phenazine-Based Emitters

By: Wan, Qing; et al

Journal of the American Chemical Society (2023), 145(3), 1607-1616.

Steps: 1 Yield: 75%

Steps: 1 Yield: 75%

Scheme 39 (1 Reaction)



Suppliers (32)

Steps: 1 Yield: 75%

📜 Suppliers (65)

31-614-CAS-38999227

Reagents: Cesium carbonate

Catalysts: Tris(dibenzylideneacetone)dipalladium, Dicycl ohexyl[3,6-dimethoxy-2',4',6'-tris(1-methylethyl)[1,1'-biphenyl]

-2-yl]phosphine

Solvents: 1,4-Dioxane; overnight, 100 °C

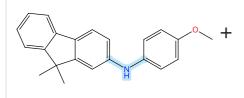
Experimental Protocols

Discovery, Optimization, and Evaluation of Potent and Selective DNA-PK Inhibitors in Combination with Chemot herapy or Radiotherapy for the Treatment of Malignancies

By: Liu, Kongjun; et al

Journal of Medicinal Chemistry (2024), 67(1), 245-271.

Scheme 40 (1 Reaction)





Suppliers (68)

Steps: 1 Yield: 75%

31-614-CAS-37237548

Reagents: Potassium tert-butoxide

Catalysts: Tris(dibenzylideneacetone)dipalladium, Tri-tert-

butylphosphonium tetrafluoroborate Solvents: Toluene; 12 h, rt → 110 °C

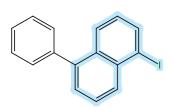
Experimental Protocols

Achieving ultra-narrow band deep blue emission by designing D-π-D molecular-structure with conjugated donors

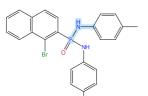
By: Yan, Lei; et al

Tetrahedron (2023), 140, 133475.

Scheme 41 (1 Reaction)



Supplier (1)



Absolute stereochemistry shown

31-614-CAS-42232611

Steps: 1 Yield: 75%

1.1 Reagents: Sodium tert-butoxide

Catalysts: Palladium diacetate, Tris(2-furyl)phosphine, Bicyclo [2.2.1]hept-2-ene-2-carboxylic acid, methyl ester, (1 R,4R)-

Solvents: Toluene; 12 h, 100 °C

Experimental Protocols

Solvent-Controlled Enantiodivergent Construction of P(V)-Stereogenic Molecules via Palladium-Catalyzed Annulation of Prochiral N-Aryl Phosphonamides with Aromatic Iodides

By: Tian, Qingyu; et al

Angewandte Chemie, International Edition (2024), 63(41), e202409366.

Steps: 1 Yield: 75%

Steps: 1 Yield: 75%

Scheme 42 (1 Reaction)

Br

Suppliers (19)

Steps: 1 Yield: 75%

31-614-CAS-41860628

1.1 **Reagents:** Sodium *tert*-butoxide

 $\label{lem:catalysts:} \textbf{Catalysts: Tris} (dibenzylideneacetone) dipalladium, [2',6'-Bis(1-methylethoxy)[1,1'-biphenyl]-2-yl] dicyclohexylphosphine$

Solvents: Toluene; overnight, 120 °C

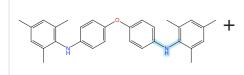
Experimental Protocols

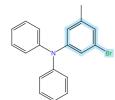
Orienting Group Directed Cascade Borylation for Efficient One-Shot Synthesis of 1,4-BN-Doped Polycyclic Aromatic Hydrocarbons as Narrowband Organic Emitters

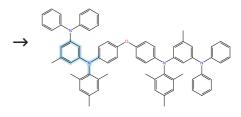
By: Wu, Lin; et al

Angewandte Chemie, International Edition (2024), 63(18), e202402020.

Scheme 43 (1 Reaction)







> Suppliers (19)

Steps: 1 Yield: 75%

31-614-CAS-41860616

.1 Reagents: Sodium *tert*-butoxide

 $\label{lem:catalysts:} \textbf{Catalysts: Tris} (dibenzylideneacetone) dipalladium, [2',6'-Bis(1-methylethoxy)[1,1'-biphenyl]-2-yl] dicyclohexylphosphine$

Solvents: Toluene; overnight, 120 °C

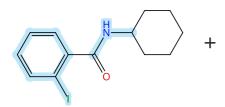
Experimental Protocols

Orienting Group Directed Cascade Borylation for Efficient One-Shot Synthesis of 1,4-BN-Doped Polycyclic Aromatic Hydrocarbons as Narrowband Organic Emitters

By: Wu, Lin; et al

Angewandte Chemie, International Edition (2024), 63(18), e202402020.

Scheme 44 (1 Reaction)



F OH

➤ Suppliers (32)

➤ Suppliers (88)

Steps: 1 Yield: 75%

Na

□ Suppliers (17)

31-614-CAS-38558290

.1 Reagents: Potassium carbonate

Catalysts: Palladium diacetate, Bis[2-(diphenylphosphino)

phenyl] ether

Solvents: Dimethylformamide; 5 h, 95 °C

Experimental Protocols

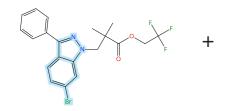
Synthesis of N-substituted phthalimides via Pd-catalyzed [4+1] cycloaddition reaction

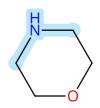
By: Hu, Chengxian; et al

Chemical Communications (Cambridge, United Kingdom) (2023), 59(100), 14839-14842.

Steps: 1 Yield: 75%

Scheme 45 (1 Reaction)





Suppliers (83)

Steps: 1 Yield: 75%

31-614-CAS-35421851

1.1 Reagents: Potassium carbonate

Catalysts: Tris(dibenzylideneacetone)dipalladium, 2'-(Dicyclo hexylphosphino)-*N*,*N*-dimethyl[1,1'-biphenyl]-2-amine

Solvents: 1,4-Dioxane; 80 °C

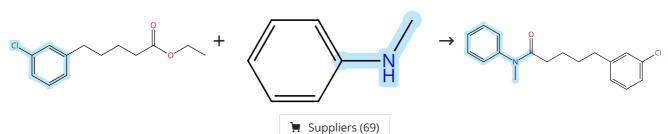
Experimental Protocols

Solvent-Dependent Selective Synthesis of CF₃-Tethered Indazole Derivatives Based on Multiple Bond Activations

By: Li, Hao; et al

Organic Letters (2023), 25(5), 720-725.

Scheme 46 (1 Reaction)



Steps: 1 Yield: 75%

31-614-CAS-39786419

1.1 **Reagents:** Hydrogen **Catalysts:** Palladium

Solvents: Methanol; overnight, rt

1.2 **Reagents:** Methylmagnesium bromide

Solvents: Diethyl ether; $rt \rightarrow 0$ °C; 0 °C; 0 °C; 0 °C $\rightarrow rt$;

overnight, rt

1.3 **Reagents:** Hydrochloric acid

Solvents: Water; rt

Experimental Protocols

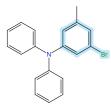
Tertiary Amides as Directing Groups for Enantios elective C-H Amination using Ion-Paired Rhodium Complexes

By: Paterson, Kieran J.; et al

Angewandte Chemie, International Edition (2024), 63(14),

e202317489.

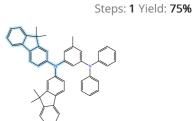
Scheme 47 (1 Reaction)



Suppliers (19)

+

Suppliers (57)



Steps: 1 Yield: 75%

1.1 Reagents: Sodium tert-butoxide

Catalysts: Tris(dibenzylideneacetone)dipalladium, Tri-tert-

butylphosphonium tetrafluoroborate Solvents: Toluene; overnight, 110 °C

Experimental Protocols

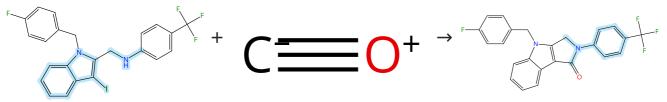
Orienting Group Directed Cascade Borylation for Efficient One-Shot Synthesis of 1,4-BN-Doped Polycyclic Aromatic Hydrocarbons as Narrowband Organic Emitters

By: Wu, Lin; et al

Angewandte Chemie, International Edition (2024), 63(18), e202402020.

Scheme 48 (1 Reaction)

Steps: **1** Yield: **75%**



Suppliers (17)

31-614-CAS-37486994

Steps: 1 Yield: 75%

1.1 **Reagents:** Triethylamine

Catalysts: Palladium diacetate, 1,1'-(9,9-Dimethyl-9*H*-xanthene-4,5-diyl)bis[1,1-diphenylphosphine]

Solvents: Toluene

1.2 Reagents: Formic acid, Triethylamine, Methanesulfonyl chloride; 10 min, rt; rt \rightarrow 100 °C; 18 h, 100 °C

Experimental Protocols

Accessing Dihydropyrrolo[3,4-b]indol-1(2H)-ones via Pd-Catalyzed Intramolecular Aminocarbonylative Ring Closure

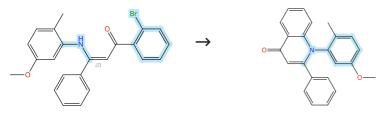
By: Alam, Ryan M.; et al

European Journal of Organic Chemistry (2023), 26(34), e202300646.

Scheme 49 (1 Reaction)

Steps: **1** Yield: **75%**

Steps: 1 Yield: 75%



Double bond geometry shown

31-614-CAS-40129302

Steps: 1 Yield: 75%

1.1 Reagents: Potassium carbonate, Sodium hydroxide Catalysts: Palladium diacetate, (-)-BINAP

Solvents: Toluene, 1,4-Dioxane; 18 h, 40 °C

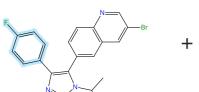
Experimental Protocols

Pd-Catalyzed Asymmetric Amination of Enamines: Expedient Synthesis of Structurally Diverse N-C Atropisomers

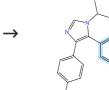
By: Zhang, Peng; et al

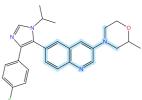
ACS Catalysis (2023), 13(11), 7680-7690.

Scheme 50 (1 Reaction)









📜 Suppliers (81)

Steps: 1 Yield: 75%

1.1 Reagents: Sodium *tert*-butoxide

Catalysts: Tris(dibenzylideneacetone)dipalladium, 2'-(Dicyclo hexylphosphino)-*N*,*N*-dimethyl[1,1'-biphenyl]-2-amine

Solvents: Toluene; 18 h, 100 °C

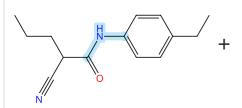
Experimental Protocols

Fragment growth-based discovery of novel TNIK inhibitors for the treatment of colorectal cancer

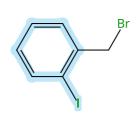
By: Teng, Yaxin; et al

European Journal of Medicinal Chemistry (2024), 268, 116240.

Scheme 51 (1 Reaction)



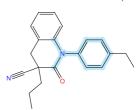
> Suppliers (3)



Suppliers (68)

Steps: 1 Yield: 75%

Steps: 1 Yield: 75%



31-614-CAS-39519117

1.1 Reagents: Cesium carbonate Solvents: 1,4-Dioxane; 2 h, 110 °C

1.2 **Catalysts:** Palladium diacetate, 1,1'-(9,9-Dimethyl-9*H*-xanthene-4,5-diyl)bis[1,1-diphenylphosphine] **Solvents:** 1,4-Dioxane; overnight, 110 °C

1.3 **Reagents:** Ammonium chloride **Solvents:** Water

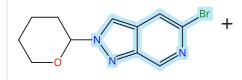
Experimental Protocols

Synthesis of highly functionalized dihydroquinolinones via a tandem benzylation/intramolecular C-N coupling strategy

By: Gao, Pei-Sen; et al

Tetrahedron (2024), 155, 133865.

Scheme 52 (1 Reaction)



HN

📜 Suppliers (101)

Steps: **1** Yield: **75%**



31-614-CAS-38711461

Steps: **1** Yield: **75%**

 $\textbf{Catalysts:} \ \mathsf{Tris} (\mathsf{dibenzylidene} acetone) \\ \mathsf{dipalladium,} \ \mathsf{BINAP}$

Solvents: Tetrahydrofuran; 18 h, 55 °C

Reagents: Sodium tert-butoxide

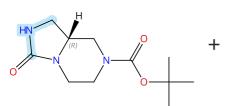
Experimental Protocols

Synthesis and vectorial functionalization of pyrazolo[3,4-c] pyridines

By: Bedwell, Elizabeth V.; et al

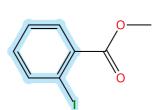
RSC Advances (2023), 13(49), 34391-34399.

Scheme 53 (1 Reaction)



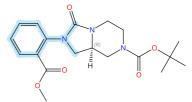
Absolute stereochemistry shown

➤ Suppliers (42)



□ Suppliers (88)

Steps: 1 Yield: 75%



Absolute stereochemistry shown

Steps: 1 Yield: 75%

Reagents: Cesium carbonate

Catalysts: Palladium diacetate, 1,1'-(9,9-Dimethyl-9Hxanthene-4,5-diyl)bis[1,1-diphenylphosphine] Solvents: 1,4-Dioxane; 5 min, rt; overnight, 90 °C

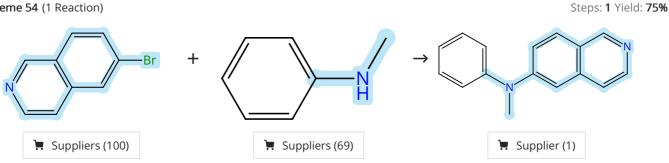
Experimental Protocols

Discovery of Linvencorvir (RG7907), a Hepatitis B Virus Core Protein Allosteric Modulator, for the Treatment of Chronic HB V Infection

By: Zhang, Weixing; et al

Journal of Medicinal Chemistry (2023), 66(6), 4253-4270.

Scheme 54 (1 Reaction)



31-614-CAS-43159502

Steps: 1 Yield: 75%

Reagents: Sodium tert-butoxide

Catalysts: Tris(dibenzylideneacetone)dipalladium, 1,1'-(9,9-Dimethyl-9*H*-xanthene-4,5-diyl)bis[1,1-diphenylphosphine]

Solvents: 1,4-Dioxane; rt → 90 °C; 24 h, 90 °C

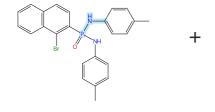
Experimental Protocols

Ruthenium-Catalyzed Carbocycle-Selective Hydrogenation of **Fused Heteroarenes**

By: Luo, Chenguang; et al

Journal of the American Chemical Society (2024), 146(51), 35043-35056.

Scheme 55 (1 Reaction)



Absolute stereochemistry shown

Steps: 1 Yield: 75%

📜 Suppliers (87)

31-614-CAS-42232608

Steps: 1 Yield: 75%

Reagents: Sodium tert-butoxide Catalysts: Palladium diacetate, Tris(2-furyl)phosphine, Bicyclo [2.2.1]hept-2-ene-2-carboxylic acid, methyl ester, (1 R,4R)-Solvents: Toluene; 12 h, 100 °C

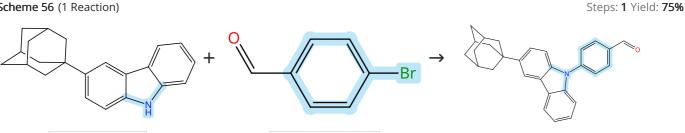
Experimental Protocols

Solvent-Controlled Enantiodivergent Construction of P(V)-Stereogenic Molecules via Palladium-Catalyzed Annulation of Prochiral N-Aryl Phosphonamides with Aromatic Iodides

By: Tian, Qingyu; et al

Angewandte Chemie, International Edition (2024), 63(41), e202409366.

Scheme 56 (1 Reaction)



📜 Supplier (1)

Suppliers (89)

Steps: 1 Yield: 75%

1.1 Reagents: Cesium carbonate, 1,1-Bis(diphenylphosphino)

ferrocene

Catalysts: Tris(dibenzylideneacetone)dipalladium

Solvents: o-Xylene; 24 h, 140 °C

Experimental Protocols

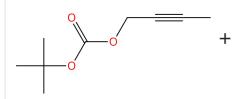
Low amplified spontaneous emission threshold coupled with efficient electroluminescence from a solution-processable bisstilbene-derived dye

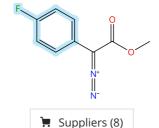
By: Wu, Houlin; et al

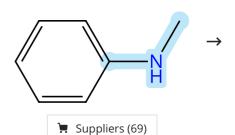
Organic Electronics (2024), 135, 107141.

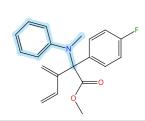
Scheme 57 (1 Reaction)











31-614-CAS-37847448

Steps: 1 Yield: 75%

1.1 Reagents: Cesium carbonate

Catalysts: 1,1-Bis(diphenylphosphino)ferrocene, Tris (dibenzylideneacetone)dipalladium, Rhodium, tetrakis[µ-

(octanoato-κ*O*:κ*O*')]di-, (*Rh-Rh*) **Solvents:** Acetonitrile; 12 h, 60 °C

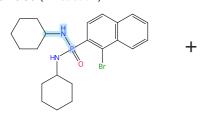
Experimental Protocols

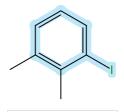
Rh(II)/Pd(0) Dual-Catalyzed Regio-Divergent Three-Component Propargylic Substitution

By: Xu, Jie; et al

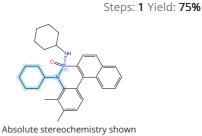
JACS Au (2023), 3(10), 2862-2872.

Scheme 58 (1 Reaction)









➤ Suppliers (78)

31-614-CAS-42232633

Steps: 1 Yield: 75%

1.1 Reagents: Potassium carbonate

Catalysts: Palladium diacetate, Tris(2-furyl)phosphine, Bicyclo [2.2.1]hept-2-ene-2-carboxylic acid, methyl ester, (1 *R*,4*R*)-

Solvents: Toluene; 12 h, 105 °C

Experimental Protocols

Solvent-Controlled Enantiodivergent Construction of P(V)-Stereogenic Molecules via Palladium-Catalyzed Annulation of Prochiral N-Aryl Phosphonamides with Aromatic Iodides

By: Tian, Qingyu; et al

Angewandte Chemie, International Edition (2024), 63(41), e202409366.

Steps: 1 Yield: 75%

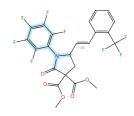
Steps: 1 Yield: 75%

Scheme 59 (1 Reaction)

F

+ F F H O →

Steps: 1 Yield: 75%



Double bond geometry shown

Double bond geometry shown

31-614-CAS-36837154

1.1 Reagents: Cesium carbonate

 $\textbf{Catalysts:}\ 2,2\text{'-Bipyridine, Tris} (dibenzy lideneace tone) dipall$

adium

Solvents: Tetrahydrofuran; 24 h, 50 °C

Experimental Protocols

[3+2] Cycloaddition of Vinyl Cyclopropane and Hydroxy lamines via Isocynate Intermediate to y-Lactams

By: Huang, Xiaobing; et al

Chinese Journal of Chemistry (2023), 41(16), 1937-1942.

Scheme 60 (1 Reaction)



➤ Suppliers (101)

📜 Suppliers (87)

Steps: 1 Yield: 75%

31-614-CAS-39940483

1.1 Reagents: Sodium tert-butoxide Catalysts: Palladium diacetate, BINAP Solvents: Toluene; 10 min, rt; 3 h, rt → 100 °C

1.2 Reagents: Water

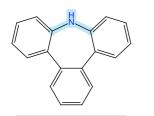
Experimental Protocols

Photoinduced Palladium-Catalyzed 1,2-Difunctionalization of Electron-Rich Olefins via a Reductive Radical-Polar Crossover Reaction

By: Fang, Hao; et al

ACS Catalysis (2023), 13(9), 6445-6451.

Scheme 61 (1 Reaction)

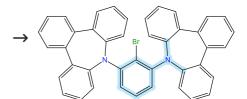


> Suppliers (44)



Suppliers (68)

Steps: 1 Yield: 75%



31-614-CAS-36221263

.1 Reagents: Sodium tert-butoxide

Catalysts: Palladium diacetate, 2-Dicyclohexylphosphino-2',6'-

dimethoxybiphenyl

Solvents: Toluene; 24 h, 120 °C

Medium-Ring Strategy Enables Multiple Resonance Emitters with Twisted Geometry and Fast Spin-Flip to Suppress Efficiency Roll-Off

By: Lei, Bowen; et al

Angewandte Chemie, International Edition (2023), 62(12), e202218405.

Steps: 1 Yield: 75%

Scheme 62 (1 Reaction)

Suppliers (83)

31-614-CAS-41335321

Suppliers (54)

Steps: 1 Yield: 75%

1.1 **Catalysts:** Palladium, tris[μ-[(1,2-η:4,5-η)-(1*E*,4*E*)-1,5-diphenyl-1,4-pentadien-3-one]]di-, compd. with trichloromethane (1:1), (2R)-1-[(1R)-1-[Bis(1,1-dimethylethyl)phosphino]ethyl]-2-(di-2furanylphosphino)ferrocene

Solvents: tert-Butyl methyl ether; 30 min, rt

Reagents: Tripotassium phosphate; 36 h, 90 °C

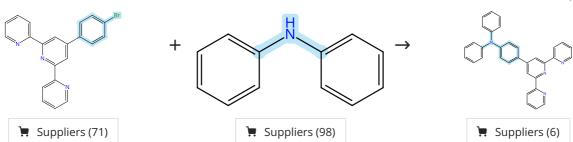
Experimental Protocols

Intermolecular Buchwald-Hartwig Reactions for Enantios elective Synthesis of Diverse Atropis omers: Rerouting the C-N Forming Mechanism to Substrate Oxygen-Assisted Reductive Elimination

By: Wang, Wei; et al

Journal of the American Chemical Society (2024), 146(24), 16567-16580.

Scheme 63 (1 Reaction)



31-614-CAS-35639584

Steps: 1 Yield: 75%

Reagents: Sodium tert-butoxide

Catalysts: Palladium diacetate, Tri-tert-butylphosphonium

tetrafluoroborate

Solvents: Toluene; 24 h, reflux

Experimental Protocols

Crystalline Unipolymer Monolayer with High Modulus and Conductivity

By: Wang, Jinxin; et al

Angewandte Chemie, International Edition (2023), 62(4), e202216838.

Scheme 64 (1 Reaction)



31-614-CAS-38558264

Steps: 1 Yield: 75%

Reagents: Potassium carbonate

Catalysts: Palladium diacetate, Bis[2-(diphenylphosphino)

phenyl] ether

Solvents: Dimethylformamide; 5 h, 95 °C

Experimental Protocols

Synthesis of N-substituted phthalimides via Pd-catalyzed [4+1] cycloaddition reaction

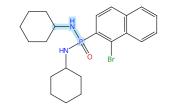
By: Hu, Chengxian; et al

Chemical Communications (Cambridge, United Kingdom) (2023), 59(100), 14839-14842.

Steps: 1 Yield: 75%

Steps: 1 Yield: 75%

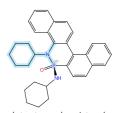
Scheme 65 (1 Reaction)





📜 Suppliers (87)

Steps: 1 Yield: 75%



Absolute stereochemistry shown

31-614-CAS-42232629

1.1 Reagents: Potassium carbonate Catalysts: Palladium diacetate, Tris(2-furyl)phosphine, Bicyclo [2.2.1]hept-2-ene-2-carboxylic acid, methyl ester, (1 R,4R)-

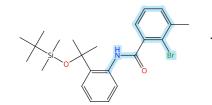
Experimental Protocols

Solvent-Controlled Enantiodivergent Construction of P(V)-Stereogenic Molecules via Palladium-Catalyzed Annulation of Prochiral N-Aryl Phosphonamides with Aromatic Iodides

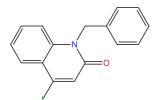
By: Tian, Qingyu; et al

Angewandte Chemie, International Edition (2024), 63(41), e202409366.

Scheme 66 (1 Reaction)



Solvents: Toluene; 12 h, 105 °C





31-614-CAS-39194521

Steps: **1** Yield: **75%**

1.1 Reagents: Potassium carbonate

Catalysts: Palladium diacetate, Tris(2-furyl)phosphine, Ethyl

(1*S*,4*R*)-bicyclo[2.2.1]hept-2-ene-2-carboxylate **Solvents:** Tetrahydrofuran; 5 min, rt; 48 h, 90 °C

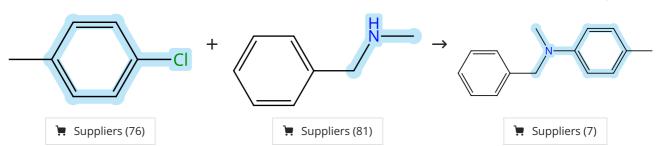
Experimental Protocols

Asymmetric Two-Component Alkenyl Catellani Reaction for the Construction of C-N Axial Chirality

By: Wu, Chenggui; et al

Chinese Journal of Chemistry (2024), 42(7), 699-704.

Scheme 67 (1 Reaction)



31-614-CAS-42014412

Steps: 1 Yield: 75%

1.1 Catalysts: Phenylboronic acid, Palladium diacetate, 1 *H*-Indole, 3-(dicyclohexylphosphino)-1-methyl-2-(2,3,4-trimetho xyphenyl)-

Solvents: Dichloromethane; rt

1.2 **Reagents:** Sodium *tert*-butoxide

Solvents: Toluene; rt; 24 h, 135 °C; 135 °C → rt

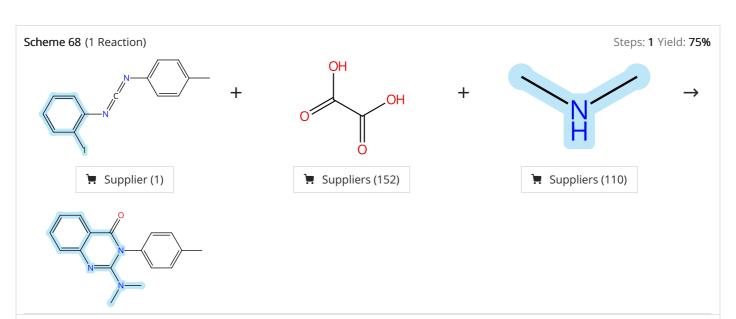
1.3 Solvents: Water; rt

Experimental Protocols

Application of indole-based monophosphine in ppm level Pdcatalyzed C-N bond formation

By: Li, Cheuk Long; et al

Journal of Organometallic Chemistry (2024), 1011, 123124.



Steps: 1 Yield: 75%

1.1 Reagents: Potassium carbonate

Catalysts: Palladium

Solvents: Dimethylformamide, Xylene; 15 h, 130 °C

Experimental Protocols

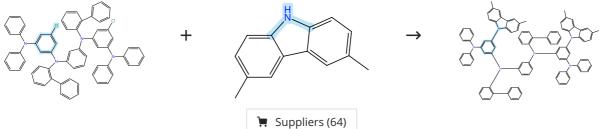
Supported Palladium-Catalyzed Tandem Synthesis of 2-(Alkylamino/amino)-3-arylquinazolin-4(3H)-ones Employing C O Source

By: Shaifali; et al

Chemistry - An Asian Journal (2023), 18(6), e202201288.

Scheme 69 (1 Reaction)

Steps: 1 Yield: 74%



31-614-CAS-38006378 Steps: **1** Yield: **74%**

1.1 **Reagents:** Sodium *tert*-butoxide

Catalysts: Tris(dibenzylideneacetone)dipalladium, Tri-tert-

butylphosphonium tetrafluoroborate **Solvents:** *o*-Xylene; 24 h, 130 °C

Experimental Protocols

One-Shot Construction of BN-Embedded Heptadecacene Framework Exhibiting Ultra-narrowband Green Thermally Activated Delayed Fluorescence

By: Sano, Yusuke; et al

Journal of the American Chemical Society (2023), 145(21), 11504-11511.

Scheme 70 (1 Reaction) Steps: 1 Yield: 74%

Double bond geometry shown

31-614-CAS-40129316

.1 Reagents: Potassium hydroxide

Catalysts: Palladium diacetate, (-)-BINAP

Solvents: Toluene; 20 min, rt 1.2 Solvents: Toluene; 5 min, rt

1.3 5 min, rt; 18 h, 60 °C

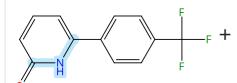
Experimental Protocols

Pd-Catalyzed Asymmetric Amination of Enamines: Expedient Synthesis of Structurally Diverse N-C Atropisomers

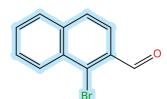
By: Zhang, Peng; et al

ACS Catalysis (2023), 13(11), 7680-7690.

Scheme 71 (1 Reaction)



Suppliers (38)



Suppliers (71)

Steps: **1** Yield: **74%**

Steps: 1 Yield: 74%

Steps: 1 Yield: 74%

1.1 Catalysts: Palladium, tris[μ-[(1,2-η:4,5-η)-(1*E,4E*)-1,5-diphenyl-1,4-pentadien-3-one]]di-, compd. with trichloromethane (1:1), (2*R*)-1-[(1*R*)-1-[Bis(1,1-dimethylethyl)phosphino]ethyl]-2-(di-2-furanylphosphino)ferrocene
 Solvents: Toluene; 30 min, rt

1.2 Reagents: Cesium carbonate; 36 h, 90 °C

Experimental Protocols

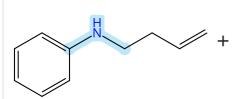
31-614-CAS-41335327

Intermolecular Buchwald-Hartwig Reactions for Enantios elective Synthesis of Diverse Atropis omers: Rerouting the C-N Forming Mechanism to Substrate Oxygen-Assisted Reductive Elimination

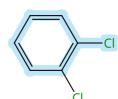
By: Wang, Wei; et al

Journal of the American Chemical Society (2024), 146(24), 16567-16580.

Scheme 72 (1 Reaction)



> Suppliers (23)



Suppliers (123)

Steps: 1 Yield: 74%

31-614-CAS-38970058

1.1 Reagents: Sodium *tert*-butoxide

Catalysts: Palladium, [7,9-bis[2,6-bis(1-methylethyl)phenyl]-7, 9-dihydro-8*H*-acenaphth[1,2-d]imidazol-8-ylidene]bromo[2-(4, 5-dihydro-4,4-dimethyl-2-oxazolyl- κN^3)-1-naphthalenyl- κC]-,

(*SP*-4-4)-

Solvents: 1,4-Dioxane; 24 h, 100 °C

Experimental Protocols

A General Protocol toward Synthesis of 3- Methylindoles Using Acenaphthoimidazolyidene-Ligated Oxazoline Palladacycle

By: Fan, Ruogian; et al

Organic Letters (2024), 26(1), 22-28.

Steps: 1 Yield: 74%

Steps: 1 Yield: 74%

Scheme 73 (1 Reaction)

> Suppliers (17)

31-614-CAS-37487007

Steps: 1 Yield: 74%

Accessing Dihydropyrrolo[3,4-b]indol-1(2H)-ones via Pd-Catalyzed Intramolecular Aminocarbonylative Ring Closure

1.1 Reagents: Triethylamine

Catalysts: Palladium diacetate, 1,1'-(9,9-Dimethyl-9*H*-xanthene-4,5-diyl)bis[1,1-diphenylphosphine]

Solvents: Toluene

1.2 Reagents: Formic acid, Triethylamine, Methanesulfonyl

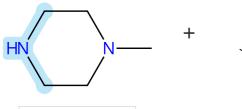
chloride; 10 min, rt; rt \rightarrow 100 °C; 18 h, 100 °C

Experimental Protocols

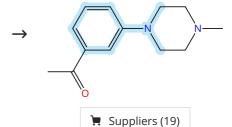
By: Alam, Ryan M.; et al

European Journal of Organic Chemistry (2023), 26(34), e202300646.

Scheme 74 (1 Reaction)



CI



➤ Suppliers (101)

📜 Suppliers (59)

Steps: 1 Yield: 74%

31-614-CAS-37909650

.1 Reagents: Tripotassium phosphate

Catalysts: Tris(dibenzylideneacetone)dipalladium, 2'-(Dicyclo hexylphosphino)-*N*,*N*-dimethyl[1,1'-biphenyl]-2-amine; 12 h,

100 °C

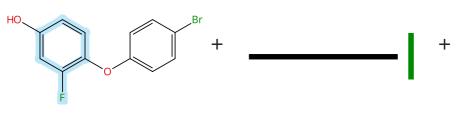
Experimental Protocols

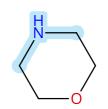
Unleashing the Potential of 1,3-Diketone Analogues as Selective LH2 Inhibitors

By: Lee, Juhoon; et al

ACS Medicinal Chemistry Letters (2023), 14(10), 1396-1403.

Scheme 75 (1 Reaction)





> Suppliers (84)

□ Suppliers (83)

31-614-CAS-38927532

Reagents: Potassium carbonate Solvents: Dimethylformamide; rt

Reagents: Ammonium chloride 1.2

Solvents: Water; rt

Reagents: Cesium carbonate 1.3

> Catalysts: Palladium diacetate, X-Phos Solvents: Toluene; 16 h, 116 °C

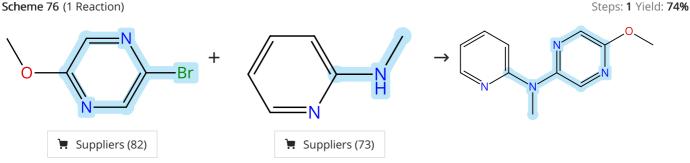
Experimental Protocols

Rhodium-Catalyzed C(sp²)-O Cross Couplings of Diazo Quinones with Phenols to Construct Diaryl Ethers

By: Fu, Zhen; et al

Organic Letters (2024), 26(1), 292-297.

Scheme 76 (1 Reaction)



31-614-CAS-41834116

Reagents: Sodium tert-butoxide

Catalysts: 1,1-Bis(diphenylphosphino)ferrocene, Tris

(dibenzylideneacetone)dipalladium Solvents: Toluene; 2 d, 130 °C

Experimental Protocols

Steps: 1 Yield: 74%

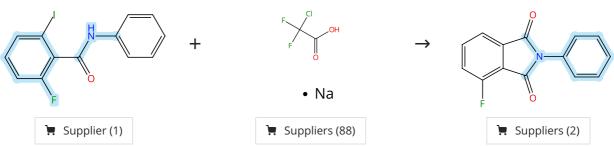
Ratiometric Imaging Detection of Amyloid-β Fibrils by a Dual-**Emissive Tris-Heteroleptic Ruthenium Complex**

Steps: 1 Yield: 74%

By: Wu, Si-Hai; et al

Inorganic Chemistry (2024), 63(39), 17983-17992.

Scheme 77 (1 Reaction)



31-614-CAS-38558294

Steps: 1 Yield: 74%

Reagents: Potassium carbonate

Catalysts: Palladium diacetate, Bis[2-(diphenylphosphino)

phenyl] ether

Solvents: Dimethylformamide; 5 h, 95 °C

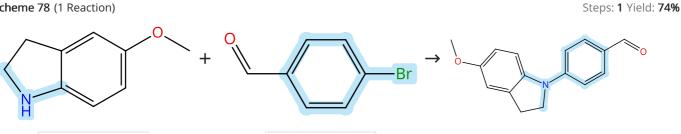
Experimental Protocols

Synthesis of N-substituted phthalimides via Pd-catalyzed [4+1] cycloaddition reaction

By: Hu, Chengxian; et al

Chemical Communications (Cambridge, United Kingdom) (2023), 59(100), 14839-14842.

Scheme 78 (1 Reaction)



Suppliers (72)

📜 Suppliers (89)

31-614-CAS-36398804 Steps: 1 Yield: 74% 1.1 Reagents: Cesium carbonate Catalysts: Palladium diacetate, BINAP

neuraminidase inhibitors with improved drug resistance profiles and favorable drug-like properties

By: Jia, Ruifang; et al

European Journal of Medicinal Chemistry (2023), 252, 115275.

Discovery of N-substituted oseltamivir derivatives as novel

Experimental Protocols

Solvents: Toluene; 12 h, 100 °C

Scheme 79 (1 Reaction)

Steps: 1 Yield: 74%

HIN O CI

N=N
Suppliers (112)

Steps: 1 Yield: 74%

31-614-CAS-36749009

1.1 **Reagents:** Sodium *tert*-butoxide

Catalysts: Tris(dibenzylideneacetone)dipalladium, [2',6'-Bis(1-methylethoxy)[1,1'-biphenyl]-2-yl]dicyclohexylphosphine

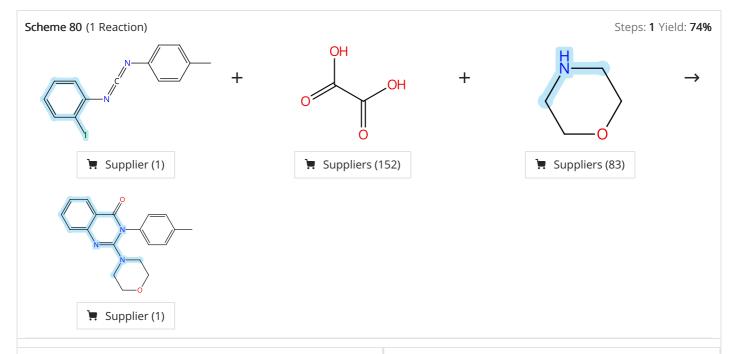
Solvents: 1,4-Dioxane; overnight, heated

Experimental Protocols

Structure-Activity relationships of replacements for the triazolopyridazine of Anti-Cryptosporidium lead SLU-2633

By: Oboh, Edmund; et al

Bioorganic & Medicinal Chemistry (2023), 86, 117295.



Steps: 1 Yield: 74%

31-614-CAS-35649888

1.1 Reagents: Potassium carbonate

Catalysts: Palladium

Solvents: Dimethylformamide, Xylene; 15 h, 130 °C

Experimental Protocols

Supported Palladium-Catalyzed Tandem Synthesis of 2-(Alkylamino/amino)-3-arylquinazolin-4(3H)-ones Employing C O Source

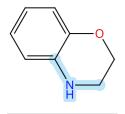
By: Shaifali; et al

Chemistry - An Asian Journal (2023), 18(6), e202201288.

Steps: 1 Yield: 74%

Steps: 1 Yield: 74%

Scheme 81 (1 Reaction)



📜 Suppliers (88)

📜 Suppliers (89)

Steps: 1 Yield: 74%

31-614-CAS-36398813

1.1 Reagents: Cesium carbonate

Catalysts: Palladium diacetate, BINAP Solvents: Toluene; 12 h, 100 °C

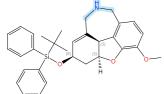
Experimental Protocols

Discovery of N-substituted oseltamivir derivatives as novel neuraminidase inhibitors with improved drug resistance profiles and favorable drug-like properties

By: Jia, Ruifang; et al

European Journal of Medicinal Chemistry (2023), 252, 115275.

Scheme 82 (1 Reaction)

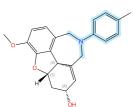


Absolute stereochemistry shown



☐ Suppliers (65)

Steps: 1 Yield: 74%



Absolute stereochemistry shown

31-614-CAS-36363940

1.1 Catalysts: Palladium diacetate, BINAP

Solvents: Toluene; 4 h, rt

1.2 **Reagents:** Potassium *tert*-butoxide

Solvents: Toluene; 24 h, 110 °C

1.3 Reagents: Water

1.4 Reagents: Hydrochloric acid

Solvents: Methanol, Water; rt; overnight, 35 °C

1.5 Reagents: Ammonium hydroxide

Solvents: Water; pH 10

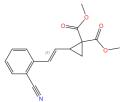
Experimental Protocols

Palladium-Catalyzed Synthesis, Acetylcholinesterase Inhibition, and Neuroprotective Activities of N-Aryl Galantamine Analogues

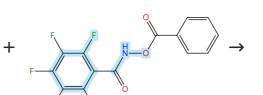
By: Zhang, Yang; et al

Journal of Natural Products (2023), 86(4), 939-946.

Scheme 83 (1 Reaction)

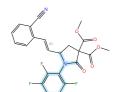


Double bond geometry shown



Steps: 1 Yield: 74%

N ·



Double bond geometry shown

31-614-CAS-36837157

1.1 Reagents: Cesium carbonate

Catalysts: 2,2'-Bipyridine, Tris(dibenzylideneacetone)dipall

adium

Solvents: Tetrahydrofuran; 24 h, 50 °C

Experimental Protocols

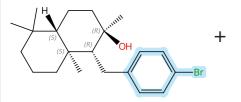
[3+2] Cycloaddition of Vinyl Cyclopropane and Hydroxy lamines via Isocynate Intermediate to y-Lactams

By: Huang, Xiaobing; et al

Chinese Journal of Chemistry (2023), 41(16), 1937-1942.

Steps: 1 Yield: 74%

Scheme 84 (1 Reaction)



Absolute stereochemistry shown

N O

📜 Suppliers (83)

Steps: 1 Yield: 74%

S (S) (R)

Absolute stereochemistry shown

31-614-CAS-37656909

1.1 **Reagents:** Sodium *tert*-butoxide

Catalysts: Tris(dibenzylideneacetone)dipalladium, X-Phos; 24

า, 80 °C

1.2 Reagents: Ammonium chloride

Solvents: Water

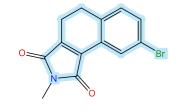
Experimental Protocols

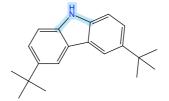
Practical Synthesis and Antifungal Investigation of Drimane Meroterpenoids Enabled by Nickel-Catalyzed Decarboxylative Coupling

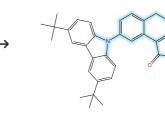
By: Sun, Shengxin; et al

Journal of Natural Products (2023), 86(6), 1420-1427.

Scheme 85 (1 Reaction)







> Suppliers (69)

31-614-CAS-46090916

Steps: **1** Yield: **74%**

.1 Reagents: Sodium *tert*-butoxide

Catalysts: Palladium diacetate, Tri-tert-butylphosphonium

tetrafluoroborate

Solvents: Toluene; 20 h, reflux

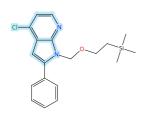
Experimental Protocols

Synthesis of Ce(IV) Heteroleptic Double-Decker Complex with a New Helical Naphthalocyanine as a Potential Gearing Subunit

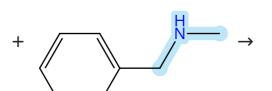
By: Subramaniam, Jeevithra Dewi; et al

Chemistry - A European Journal (2024), 30(55), e202402470.

Scheme 86 (1 Reaction)

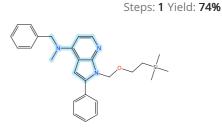


> Supplier (1)



📜 Suppliers (81)

Steps: 1 Yield: 74%



31-614-CAS-42383736

.1 Reagents: Sodium *tert*-butoxide

Catalysts: Palladium diacetate, [2',6'-Bis(1-methylethoxy)[1,1'-

biphenyl]-2-yl]dicyclohexylphosphine **Solvents:** *tert*-Butanol; 1 h, 85 °C

Experimental Protocols

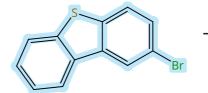
Synthetic Routes to 2-aryl-1H-pyrrolo[2,3-b]pyridin-4-amines:

Cross-Coupling and Challenges in SEM-Deprotection

By: Merugu, Srinivas Reddy; et al

Molecules (2024), 29(19), 4743.

Scheme 87 (1 Reaction)





Suppliers (3)

Suppliers (80)

Steps: 1 Yield: 74%

31-614-CAS-41860573

Reagents: Sodium tert-butoxide

Catalysts: Tris(dibenzylideneacetone)dipalladium, [2',6'-Bis(1methylethoxy)[1,1'-biphenyl]-2-yl]dicyclohexylphosphine

Solvents: Toluene; overnight, 110 °C

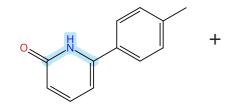
Experimental Protocols

Orienting Group Directed Cascade Borylation for Efficient One-Shot Synthesis of 1,4-BN-Doped Polycyclic Aromatic Hydrocarbons as Narrowband Organic Emitters

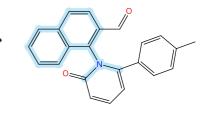
By: Wu, Lin; et al

Angewandte Chemie, International Edition (2024), 63(18), e202402020.

Scheme 88 (1 Reaction)







Steps: 1 Yield: 74%

Steps: 1 Yield: 74%

□ Suppliers (41)

Suppliers (71)

31-614-CAS-41335330

Steps: 1 Yield: 74%

Catalysts: Palladium, tris[μ -[(1,2- η :4,5- η)-(1*E*,4*E*)-1,5-diphenyl-1,4-pentadien-3-one]]di-, compd. with trichloromethane (1:1), (2R)-1-[(1R)-1-[Bis(1,1-dimethylethyl)phosphino]ethyl]-2-(di-2furanylphosphino)ferrocene

Solvents: Toluene; 30 min, rt

Reagents: Cesium carbonate; 36 h, 90 °C

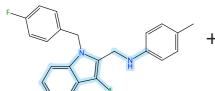
Experimental Protocols

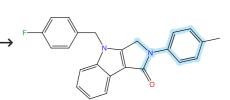
Intermolecular Buchwald-Hartwig Reactions for Enantios elective Synthesis of Diverse Atropis omers: Rerouting the C-N Forming Mechanism to Substrate Oxygen-Assisted Reductive Elimination

By: Wang, Wei; et al

Journal of the American Chemical Society (2024), 146(24), 16567-16580.

Scheme 89 (1 Reaction)





Suppliers (17)

Steps: 1 Yield: 74%

1.1 Reagents: Triethylamine

Catalysts: Palladium diacetate, 1,1'-(9,9-Dimethyl-9*H*-xanthene-4,5-diyl)bis[1,1-diphenylphosphine]

Solvents: Toluene

1.2 **Reagents:** Formic acid, Triethylamine, Methanesulfonyl

chloride; 10 min, rt; rt → 100 °C; 18 h, 100 °C

Experimental Protocols

Accessing Dihydropyrrolo[3,4-b]indol-1(2H)-ones via Pd-Catalyzed Intramolecular Aminocarbonylative Ring Closure

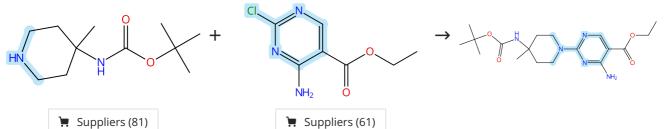
By: Alam, Ryan M.; et al

European Journal of Organic Chemistry (2023), 26(34),

e202300646.

Scheme 90 (1 Reaction)

Steps: **1** Yield: **74%**



31-614-CAS-36514165

Steps: 1 Yield: 74%

Reagents: Sodium *tert*-butoxide

Catalysts: Triphenylphosphine, Tris(dibenzylideneacetone)

dipalladium

Solvents: 1,4-Dioxane; 15 min, rt

1.2 Solvents: 1,4-Dioxane; 18 h, 100 °C

Experimental Protocols

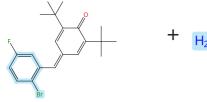
Discovery of a potent and selective allosteric inhibitor targeting the SHP2 tunnel site for RTK-driven cancer treatment

By: Luo, Ruixiang; et al

European Journal of Medicinal Chemistry (2023), 253, 115305.

Steps: 1 Yield: 74%

Scheme 91 (1 Reaction)



+ H₂N →

Suppliers (46)

31-614-CAS-38947669

Steps: 1 Yield: 74%

1.1 **Reagents:** Potassium *tert*-butoxide

Catalysts: Palladium diacetate, 1,3-Bis(diphenylphosphino)

propane

Solvents: Toluene; 15 h, 110 °C

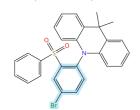
Experimental Protocols

Synthesis and Photophysical Properties of 3-Substituted-1H-Indazoles: A Pd-Catalyzed Double C-N Bond Formation Strategy via 1,6-Conjugate Addition

By: Kayastha, Nasib; et al

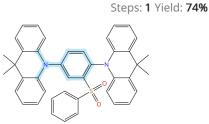
Journal of Organic Chemistry (2024), 89(1), 402-413.

Scheme 92 (1 Reaction)



+





📜 Suppliers (68)

Steps: 1 Yield: 74%

Reagents: Sodium tert-butoxide, Tri-tert-butylphosphonium

tetrafluoroborate

Catalysts: Palladium diacetate Solvents: Toluene; 48 h, 110 °C

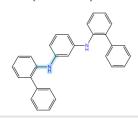
Experimental Protocols

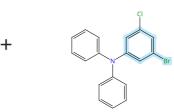
Unveiling the TADF Emitters with Apparent Negative Singlet-Triplet Gaps: Implications for Exciton Harvesting and OLED Performance

By: Chen, Xinrui; et al

Advanced Optical Materials (2024), 12(6), 2301784.

Scheme 93 (1 Reaction)







31-614-CAS-38006388

Steps: 1 Yield: 74%

1.1 Reagents: Sodium tert-butoxide

Catalysts: Tris(dibenzylideneacetone)dipalladium, 2-Dicycloh

exylphosphino-2',6'-dimethoxybiphenyl

Solvents: Toluene; 2 h, 100 °C

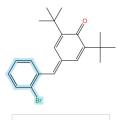
Experimental Protocols

One-Shot Construction of BN-Embedded Heptadecacene Framework Exhibiting Ultra-narrowband Green Thermally Activated Delayed Fluorescence

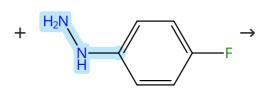
By: Sano, Yusuke; et al

Journal of the American Chemical Society (2023), 145(21), 11504-11511.

Scheme 94 (1 Reaction)



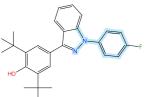




📜 Suppliers (61)

Steps: 1 Yield: 74%

Steps: 1 Yield: 74%



31-614-CAS-38947660

Steps: 1 Yield: 74%

Reagents: Potassium tert-butoxide

Catalysts: Palladium diacetate, 1,3-Bis(diphenylphosphino)

propane

Solvents: Toluene; 15 h, 110 °C

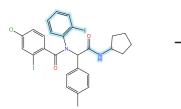
Experimental Protocols

Synthesis and Photophysical Properties of 3-Substituted-1H-Indazoles: A Pd-Catalyzed Double C-N Bond Formation Strategy via 1,6-Conjugate Addition

By: Kayastha, Nasib; et al

Journal of Organic Chemistry (2024), 89(1), 402-413.

Scheme 95 (1 Reaction)





Steps: 1 Yield: 74%

31-614-CAS-38556063

Steps: 1 Yield: 74%

Preparation of pyridopyrazines through tandem Pd-catalyzed C-N/C-C coupling reactions of Ugi adducts

Reagents: Potassium carbonate 1.1 Catalysts: Palladium diacetate

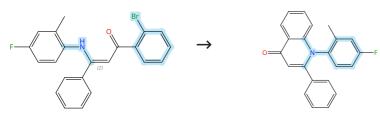
Solvents: Dimethylformamide; 12 h, 110 °C

Experimental Protocols

By: Takallou, Ahmad; et al

Organic & Biomolecular Chemistry (2023), 21(48), 9530-9533.

Scheme 96 (1 Reaction)



Double bond geometry shown

31-614-CAS-40129295

Reagents: Potassium carbonate, Sodium hydroxide Catalysts: Palladium diacetate, (-)-BINAP

Solvents: Toluene, 1,4-Dioxane; 18 h, 40 °C

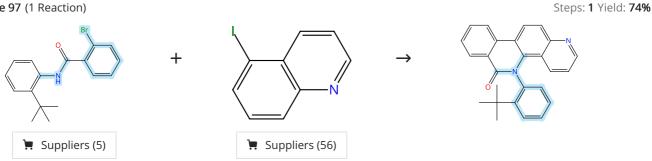
Experimental Protocols

Pd-Catalyzed Asymmetric Amination of Enamines: Expedient Synthesis of Structurally Diverse N-C Atropisomers

By: Zhang, Peng; et al

ACS Catalysis (2023), 13(11), 7680-7690.

Scheme 97 (1 Reaction)



Steps: 1 Yield: 74%

31-614-CAS-41071010

Steps: 1 Yield: 74%

Reagents: Norbornene, Silver sulfate Catalysts: Tris(dibenzylideneacetone)dipalladium, (45,4'5)-4,4', 5,5'-Tetrahydro-4,4'-bis(1-methylethyl)-1,1'-bis[3-(trifluor

omethyl)phenyl]-2,2'-bi-1 H-imidazole Solvents: Toluene, Water; 36 h, 80 °C

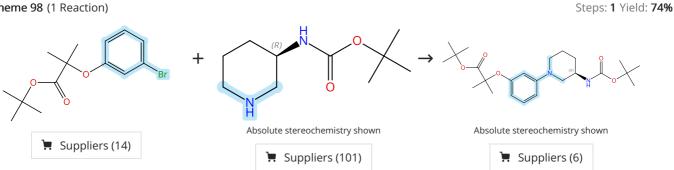
Experimental Protocols

Chiral dinitrogen ligand enabled asymmetric Pd/norbornene cooperative catalysis toward the assembly of C-N axially chiral scaffolds

By: Jin, Liang; et al

Nature Communications (2024), 15(1), 4908.

Scheme 98 (1 Reaction)



31-614-CAS-41301353

Steps: 1 Yield: 74%

Discovery of Novel 1-Phenylpiperidine Urea-Containing Deriva tives Inhibiting β-Catenin/BCL9 Interaction and Exerting Antitumor Efficacy through the Activation of Antigen Presen tation of cDC1 Cells

By: Zhu, Wenhua; et al

Journal of Medicinal Chemistry (2024), 67(15), 12485-12520.

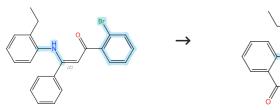
Reagents: Cesium carbonate

Catalysts: Tris(dibenzylideneacetone)dipalladium, [2',6'-Bis(1methylethoxy)[1,1'-biphenyl]-2-yl]dicyclohexylphosphine

Solvents: Toluene; 48 h, 90 °C

Experimental Protocols





Double bond geometry shown

31-614-CAS-40129306

1.1 Reagents: Potassium carbonate, Sodium hydroxide Catalysts: Palladium diacetate, (-)-BINAP Solvents: Toluene, 1,4-Dioxane; 18 h, 40 °C

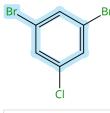
Experimental Protocols

Pd-Catalyzed Asymmetric Amination of Enamines: Expedient Synthesis of Structurally Diverse N-C Atropisomers

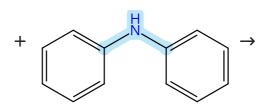
By: Zhang, Peng; et al

ACS Catalysis (2023), 13(11), 7680-7690.

Scheme 100 (1 Reaction)



Suppliers (91)



➤ Suppliers (98)



Suppliers (11)

31-614-CAS-41860662

1.1 Reagents: Sodium tert-butoxide

Catalysts: Tris(dibenzylideneacetone)dipalladium, Tri-tert-

butylphosphonium tetrafluoroborate Solvents: Toluene; overnight, 110 °C

Experimental Protocols

Steps: 1 Yield: 74%

Steps: 1 Yield: 74%

Orienting Group Directed Cascade Borylation for Efficient One-Shot Synthesis of 1,4-BN-Doped Polycyclic Aromatic Hydrocarbons as Narrowband Organic Emitters

By: Wu, Lin; et al

Angewandte Chemie, International Edition (2024), 63(18), e202402020.

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