

Welcome



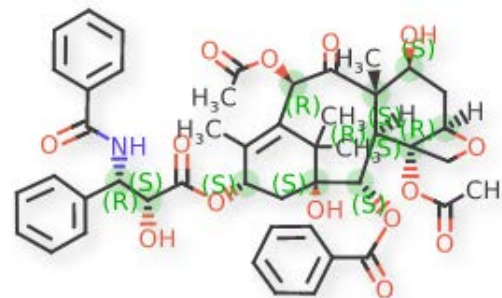
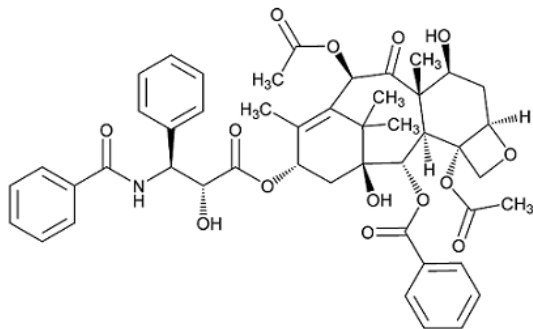
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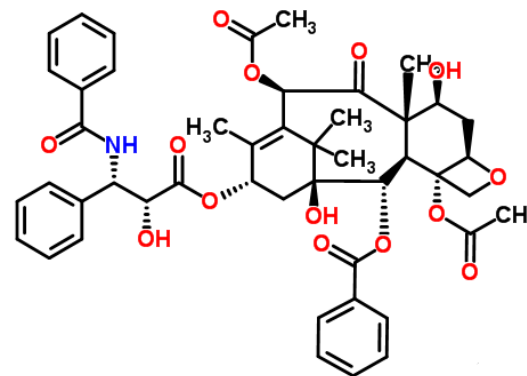
Substances in the USP and the USP Dictionary

Andrzej Wilk, Ph. D.
USP

Paclitaxel



$C_{47}H_{51}NO_{14}$ 853.91
 Benzenepropanoic acid, β -(benzoylamino)- α -hydroxy-,
 6,12b-bis(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,
 11,12,12a,12b-dodecahydro-4,11-dihydroxy-4a,8,13,
 13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca
 [3,4]benz[1,2-b]oxet-9-yl ester, [2aR-[2 α ,4 β ,4a β ,6 β ,
 9 α (α R*, β S*),11 α ,12 α ,12a α ,12b α]]-.
 (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-1,2a,3,4,4a,6,9,
 10,11,12,12a,12b-Dodecahydro-4,6,9,11,12,12b-
 hexahydroxy-4a,8,13,13-tetramethyl-7,11-methano-5H-
 cyclodeca[3,4]-benz[1,2-b]oxet-5-one 6,12b-diacetate,
 12-benzoate, 9-ester with (2R,3S)-N-benzoyl-
 3-phenylisoserine [33069-62-4].



USP in labeling



G-SRS



version 1.3.10 beta

Browse Substances

Structure Search

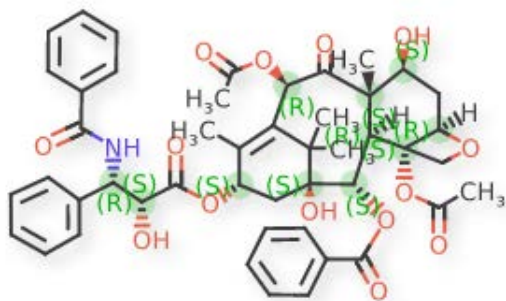
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Export File

File Type: Molfile

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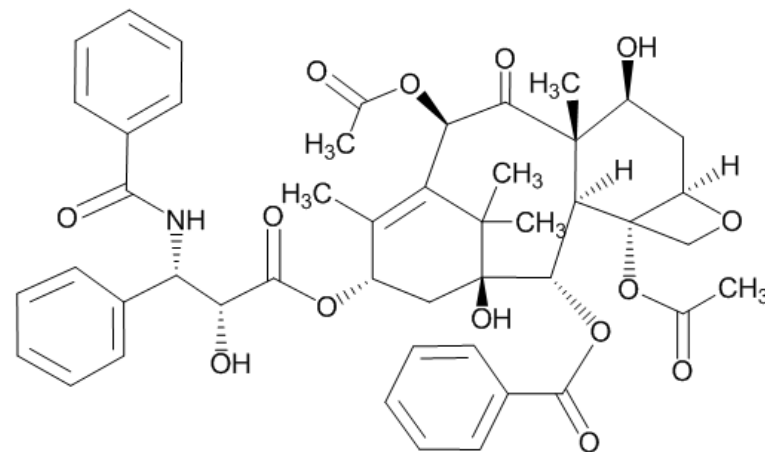
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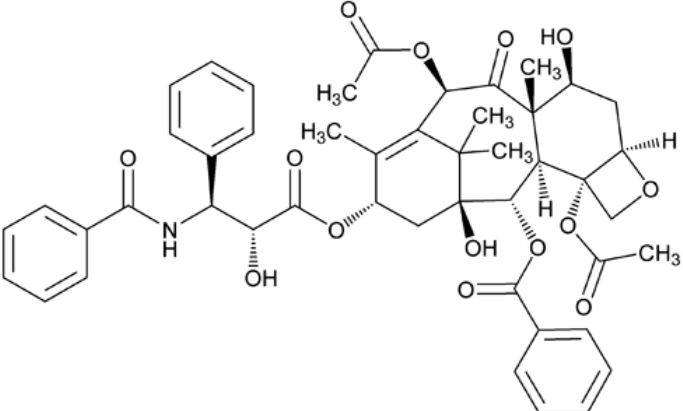
File Edit View Object Structure Text Curves Colors Search Window Help

CH₂ X₂ X²



USP Dictionary of USAN and International Drug Names



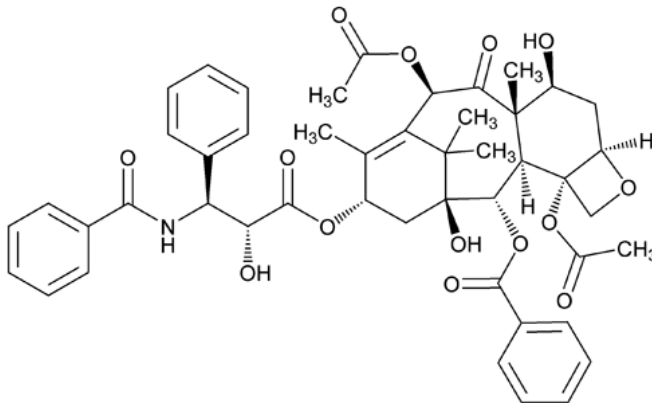
Paclitaxel - (pak' li tax' el).	
Date	[1993]
Official Compendia	USP.
Molecular Info	C ₄₇ H ₅₁ NO ₁₄ . 853.91.
Nonproprietary Name	INN; BAN.
Chemical Name	(1) Benzenepropanoic acid, β-(benzoylamino)-α-hydroxy-, 6,12-bis(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-4,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, [2aR-[2aα,4β,4aβ,6β,9α(αR*,βS*),11α,12α,12aα,12bα]]-; (2) (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-1,2a,3,4,4a,6,9,10,11,12,12a,12b-Dodecahydro-4,6,9,11,12,12b-hexahydroxy-4a,8,13,13-tetramethyl-7,11-methano-5H-cyclodeca[3,4]benz[1,2-b]oxet-5-one 6,12b-diacetate, 12-benzoate, 9-ester with (2R,3S)-N-benzoyl-3-phenylisoserine.
UNII Codes	UNII-P88XT4IS4D.
CAS Numbers	CAS-33069-62-4.
Category	Antineoplastic.
Manufacturer Info	Abraxane (Abraxis); Taxol (Bristol-Myers Squibb)
Code Designations	◇BMS-181339-01; NSC-125973
Annotations	[Name previously used: Taxol.]
	

USP Dictionary of USAN and International Drug Names




Paclitaxel - (pak" li tax' el).

Date	[1993]
Official Compendia	USP.
Molecular Info	C ₄₇ H ₅₁ NO ₁₄ . 853.91.
Nonproprietary Name	INN; BAN.
Chemical Name	(1) Benzenepropanoic acid, β-(benzoylamino)-α-hydroxy-, 6,12b-bis(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-4,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, [2aR-[2aa,4β,4aβ,6β,9α(αR*,βS*),11α,12α,12aa,12ba]]-; (2) (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-1,2a,3,4,4a,6,9,10,11,12,12a,12b-Dodecahydro-4,6,9,11,12,12b-hexahydroxy-4a,8,13,13-tetramethyl-7,11-methano-5H-cyclodeca[3,4]benz[1,2-b]oxet-5-one 6,12b-diacetate, 12-benzoate, 9-ester with (2R,3S)-N-benzoyl-3-phenylisoserine.
UNII Codes	UNII-P88XT4IS4D.
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Code Designations	◇BMS-181339-01; NSC-125973
Annotations	[Name previously used: Taxol.]



Properties

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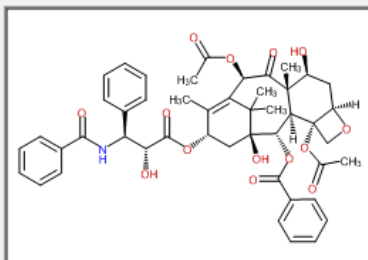
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Created: 10/5/2017

Modified: 10/5/2017

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Dictionary prototype



853.91

C₄₇H₅₁NO₁₄

3369-62-4

CAS

P8&XT4IS4D

UNII

Paclitaxel

(2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-9-(((2R,3S)-3-benzamido-2-hydroxy-3-phenylpropanoyl)

Chemical name

Paclitaxel; Paclitaxel Injection

USP Monograph

USP Paclitaxel RS

RS name

BMS-181339-1

Manufacturer's code

1491332

RS Catalog number

1993

Year approved as USAN

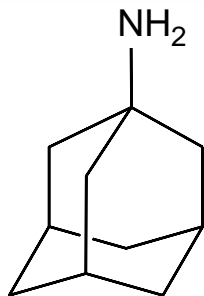
Antineoplastic

Category

Data Export



A	B	C	D	E	F	G	H	I	J	K	L	M	N
Structure	USP_Monograph	RS_name	Manufacturer's code	Chemical_name	Category	RS Catalog Number	Codes	Year approved as USAN	MolWeight	Formula	CAS	UNII	USAN
CC1(C)[C@@]([C@@H](OC(C2=CC=CC=C2)=O)[C@@]3([H])[C@@]4(C)[C@@H](O)[C@]5([H])[C@@]3(OC(C)=O)C5)(O)[C@H](OC([C@H](O)[C@H](C6=CC=CC=C6)N(C7=CC=CC=C7)=O)=O)C(C)=C1[C@@H](OC(C)=O)C4=O	Paclitaxel; Paclitaxel Injection	USP Paclitaxel RS	BMS-181339-1		Antineoplastic	1491332		1993	853.91	C47H51NO14	'3369-62-4	P88XT4I54D	Paclitaxel
CC1(C)[C@@]([C@@H](OC(C2=CC=CC=C2)=O)[C@@]3([H])[C@@]4(C)[C@@H](O)[C@]5([H])[C@@]3(OC(C)=O)C5)(O)[C@H](OC([C@H](OC(CC[C@@H](C[N[C@@H](CCC(O)=O)C(O)=O)=O)NC([C@H](CCC(O)=O)N)=O)=O)[C@H](C6=CC=CC=C6)NC(C7=CC=CC=C7)=O)=O)C(C)=C1[C@@H](OC(C)=O)C4=O									1241.26	C62H72N4O23			Paclitaxel Poliglumex
CC1(C)[C@@]([C@@H](OC(C(C)=C/C)=O)[C@@]2([H])[C@@]3(C)[C@@H](O)[C@]4([H])[C@@]2(OC(C)=O)C4)(O)[C@H](OC([C@H](O)[C@H](C5=CC=CC=C5)NC(C6=CC=CC=C6)=O)=O)C(C)=C1[C@@H](OC(C)=O)C3=O									831.91	C45H53NO14			Paclitaxel 2-Debenzyl-2-Pentenoate
CC1(C)[C@@]([C@@H](OC(C2=CC=CC=C2)=O)[C@@]3([H])[C@@]4(C)[C@@H](O)[C@]5([H])[C@@]3(OC(C)=O)C5)(O)[C@H](OC([C@H](O)[C@H](C6=CC=CC=C6)NC(C7=CC=CC=C7)=O)=O)C(C)=C1[C@@H](OC(C)=O)C4=O									895.95	C49H53NO15			Paclitaxel 7-Acetyl
CC1(C)[C@@]([C@@H](OC(C2=CC=CC=C2)=O)[C@@]3([H])[C@@]4(C)[C@@H](O)[C@]5([H])[C@@]3(OC(C)=O)C5)(O)[C@H](OC([C@H](O)[C@H](C6=CC=CC=C6)N(C(C/C=C\C(C)=O)=O)C(C)=C1[C@@H](OC(C)=O)C4=O									845.93	C46H55NO14			Paclitaxel C Dehydro
CC1(C)[C@@]([C@@H](O)[C@@]2([H])[C@@]3(C)[C@@H](O)[C@H](OC(C)=O)[C@@]2(O)COC(C4=CC=CC=C4)=O)(O)[C@H](OC([C@H](O)[C@H](C5=CC=CC=C5)NC(C6=CC=CC=C6)=O)=O)C(C)=C1[C@@H](OC(C)=O)C3=O									871.93	C47H53NO15			Paclitaxel Oxetane Op

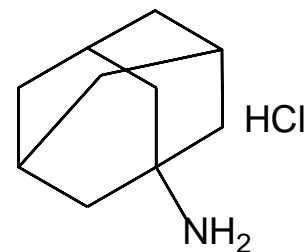
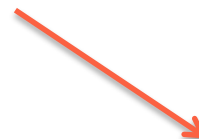
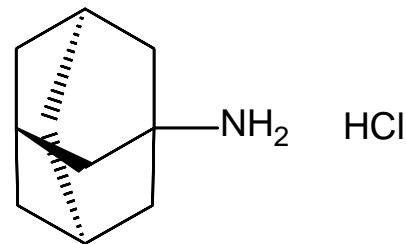


HCl

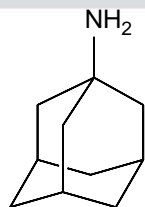


NC1(C2)C[C@@H]3C[C@H]2C[C@H](C1)C3.Cl

Cl.NC12CC3CC(CC(C3)C1)C2

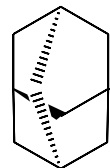


Data Export



HCl

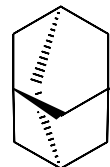
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NH_2

HCl

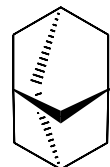
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NH_2

HCl

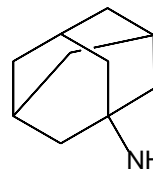
WOLHOYHSEKDWQH-GFZFNSNDSA-N



NH_2

HCl

WOLHOYHSEKDWQH-SOVZANNPSA-N



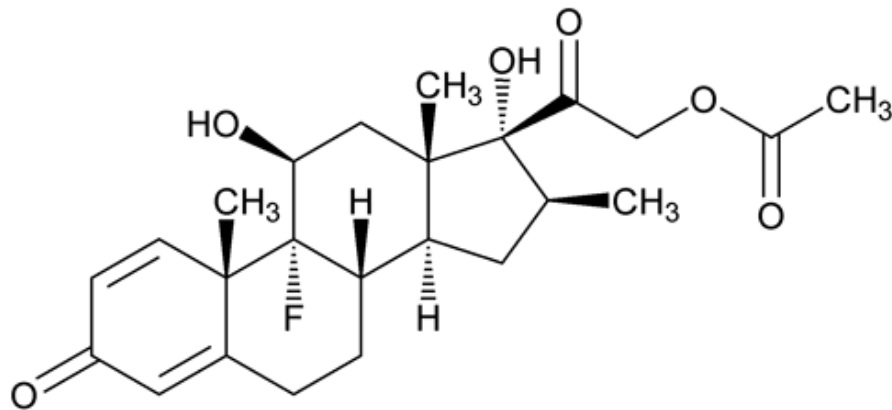
HCl

WOLHOYHSEKDWQH-UHFFFAOYSA-N

Betamethasone Acetate - (bay" ta meth' a sone as' e tate).



Official Compendia	USP.
Molecular Info	C ₂₄ H ₃₁ FO ₆ . 434.50.
Nonproprietary Name	JAN.
Chemical Name	(1) Pregna-1,4-diene-3,20-dione, 9-fluoro-11,17-dihydroxy-16-methyl-21-(acetyloxy)-, (11 β ,16 β)-; (2) 9-Fluoro-11 β ,17,21-trihydroxy-16 β -methylpregna-1,4-diene-3,20-dione 21-acetate.
UNII Codes	UNII-TI05AO53L7.
CAS Numbers	CAS-987-24-6.
Category	Glucocorticoid.



Data Export



b

9-Fluoro-11 β ,17,21-trihydroxy-16 β -methylpregna-1,4-diene-3,20-dione 21-acetate

b

9-Fluoro-11b,17,21-trihydroxy-16b-methylpregna-1,4-diene-3,20-dione 21-acetate

GINAS

9-FLUORO-11.BETA.,17,21-TRIHYDROXY-16.BETA.-METHYLPREGNA-1,4-DIENE-3,20-DIONE 21-ACETATE

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ChemSpider

(11 β ,16 β)-9-Fluoro-11,17-dihydroxy-16-methyl-3,20-dioxopregna-1,4-dien-21-yl acetate

Chemical Nomenclature



INTERNATIONAL UNION OF PURE AND APPLIED CHEMISTRY

Recommendations on Organic & Biochemical Nomenclature, Symbols & Terminology etc.

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g.p.moss@qmul.ac.uk

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[Non-standard Valence States \(Lambda Convention\)](#)

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[IUPAC Atomic Weights
and Periodic Table
\(2015 values\) **New values and elements**](#)

[Von Baeyer nomenclature](#)

[Natural product nomenclature \(Section F\)](#)

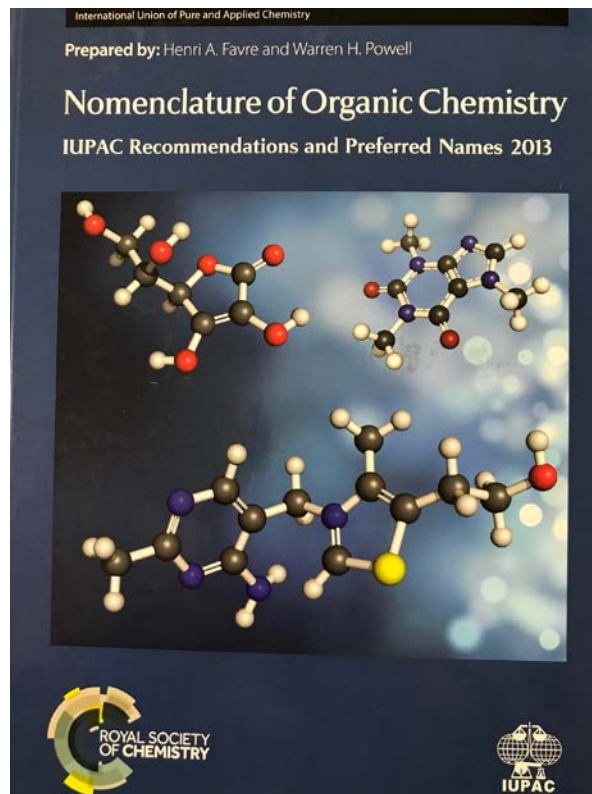
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[Fullerene nomenclature](#)

[Numbering of Fullerenes](#)

[Regular single-strand organic polymers nomenclature](#)

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Working document QAS/17.726

July 2017

Document for comments



1
2 **GUIDANCE FOR THE GRAPHIC REPRESENTATION OF**
3 **PHARMACEUTICAL SUBSTANCES IN THE PUBLICATIONS**
4 **OF INTERNATIONAL NONPROPRIETARY NAMES AND**
5 **THE INTERNATIONAL PHARMACOPOEIA**

6 (July 2017)

8 *DRAFT FOR COMMENTS*

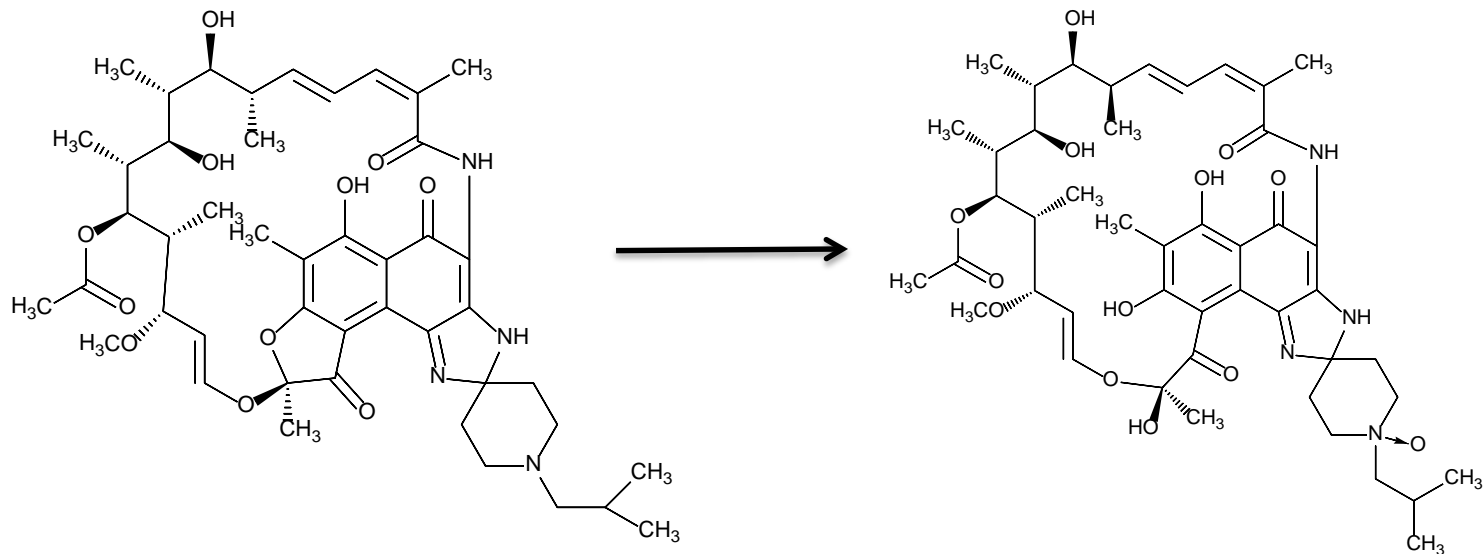


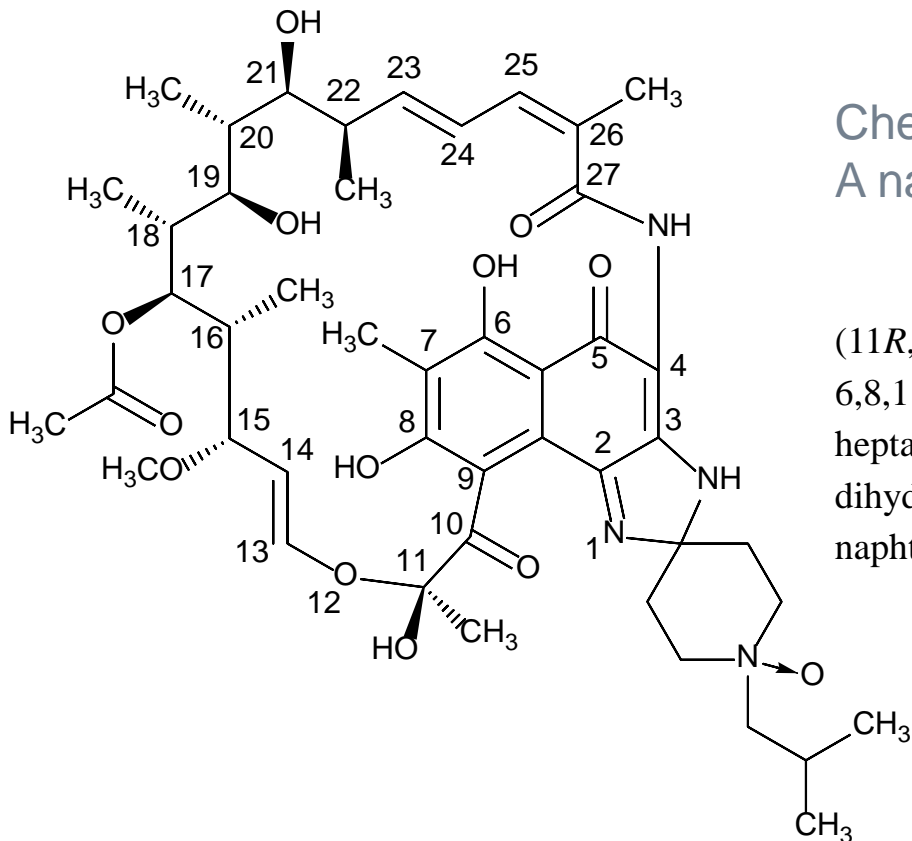
Dr. Raymond Boudet-Dalbin

III. EUROPEAN PHARMACOPOEIA COMMISSION

COMPOSITION OF THE COMMISSION, LIST OF EXPERTS
AND OF THE SECRETARIAT (2015)

Dr. Armand Blommaert





Chem Draw:

A name could not be generated for this structure.

(11*R*,13*E*,16*S*,17*R*,18*S*,19*R*,20*R*,21*S*,22*S*,23*E*,25*Z*)-17-acetyloxy-6,8,11,19,21-pentahydroxy-15-methoxy-7,11,16,18,20,22,26-heptamethyl-1'-(2-methylpropyl)-5,10,27-trioxo-3,5-dihydrospiro[4,9-(epiminopentadeca[2,4,14]trienoxyethano)naphtho[1,2-*d*]imidazole-2,4'-piperidine] *N*'-oxide

(9*R*)-9-hydroxy-8,9-secorifabutin *N*-oxide

Thank You



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Questions?



Empowering a healthy tomorrow