

## Recro Pharma Inc

### CORTELLIS COMPANY DETAILED PIPELINE REPORT

A comprehensive coverage of the the company's drug pipeline portfolio including detailed product records.

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# ABOUT CORTELLIS COMPANY DETAILED PIPELINE REPORT

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## GLOSSARY

### Number of Drugs in Active Development

Number of drugs associated with the company or subsidiary that are currently in active development, i.e. the development status for the drug(s) is one of the following: Discovery, Clinical, Phase I, Phase II, Phase III, Pre-registration, Registered, Launched, or Suspended.

### Number of Inactive Drugs

Number of drugs associated with the company or subsidiary that are currently classified as inactive, i.e. where the development status for the drug(s) is one of the following: No Development Reported, Discontinued, or Withdrawn.

### Number of Patents as Owner

Number of patents associated with the company where the company is listed as owner; i.e. the relationship type (or way the patent refers to the company) is: Patent Assignee/Owner, Patent owner (not assignee), Licensee for development and marketing, Licensee – marketing only (Distributor), Patent assignee of family member, Inferred assignee.

### Number of Patents as Third Party

Number of patents associated with the company where the company is listed as third party; i.e. the relationship type (or way the patent refers to the company) is: Patent assignee (not owner), Ex-Licensee for development and marketing, Ex-Licensee marketing only (Distributor), Customer of technology, Ex-Customer of technology, Patent opponent or infringer, Affiliate organization of inventor, Owner of underlying technology.

### Patents summary table

This table represents a summary of the core patent coverage for this company covering Therapeutic EP, US and WO patents since 1990 only.

### Number of Deals

A count of deals where the company or one of its subsidiaries is the primary company.

### Key Indications

Displays top ten key indications for the company and its subsidiaries based on frequency (indications occurring with high and identical frequency are always included, and this may result in more than ten Key Indications being listed). Includes both indications associated with patents where the company is patent owner and indications associated with drugs in active development. A drug is classified as 'active' if it features on a row (or rows) in the current development status table where the status is one of the following: Discovery, Clinical, Phase I, Phase II, Phase III, Pre-registration, Registered, Launched, or Suspended.

### Key Target-based Actions

Displays top ten key target-based actions for the company and its subsidiaries based on frequency (actions occurring with high and identical frequency are always included, and this may result in more than ten Key Target-based Actions being listed). Includes both target-based actions associated with patents where the company patent owner and target-based actions associated with drugs in active development. A drug is classified as 'active' if it features on a row (or rows) in the current development status table where the status is one of the following: Discovery, Clinical, Phase I, Phase II, Phase III, Pre-registration, Registered, Launched, or Suspended. A target-based action is one that is associated with a target.

### Key Technologies

Displays top ten key technologies for the company and its subsidiaries based on frequency (technologies occurring with high and identical frequency are always included, and this may result in more than ten Key Technologies being listed). Includes both key technologies associated with patents where the company relationship is patent owner and key technologies associated with drugs in active development. A drug is classified as 'active' if it features on a row (or rows) in the current development status table where the status is one of the following: Discovery, Clinical, Phase I, Phase II, Phase III, Pre-registration, Registered, Launched, or Suspended.

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# Recro Pharma Inc

## COMPANY OVERVIEW

<b>Company Name</b>	Recro Pharma Inc
<b>Parent Company Name</b>	Recro Pharma Inc
<b>Website</b>	http://www.recropharma.com/
<b>Country</b>	US
<b>Number of Drugs in Active Development</b>	5
<b>Number of Inactive Drugs</b>	1
<b>Number of Patents as Owner</b>	3
<b>Number of Patents as Third Party</b>	0
<b>Number of Deals</b>	2
<b>Key Indications</b>	Pain,Neuropathic pain,Myalgia,Neuropathy,Neuritis,Cancer pain,Headache,Hyperalgesia,Hypotension,Lower back pain,Migraine,Shock
<b>Key Target-based Actions</b>	Alpha 2 adrenoceptor agonist
<b>Key Technologies</b>	Small molecule therapeutic,Transdermal formulation,Buccal formulation systemic,Nasal formulation,Buccal formulation local,Intrathecal formulation,Systemic formulation unspecified

## COMPANY PROFILE

### SUMMARY

Recro Pharma Inc is a specialty pharmaceutical company which develops therapeutics for the potential adjunctive management and treatment of serious pain and related conditions.

### FINANCIAL

In February 2015, Recro Pharma entered into a common stock purchase agreement with Aspire Capital Fund. Under the new agreement, Recro had the right to sell up to \$10 million in shares of common stock to Aspire Capital over a two-year period.

In June 2014, Recro Pharma was added to the Russell Microcap Index.

In March 2014, Recro Pharma priced its IPO of 3,750,000 shares of common stock at \$8.00 per share for an expected gross proceeds of \$30 million. At that time, underwriters were to be granted a 45-day option to purchase up to 562,500 additional shares. The stock was to be traded on the NASDAQ Capital Market under the symbol 'REPH'; at that time, the offering was to close on March 12, 2014. Later that month, the company raised gross proceeds of \$34,500,000 with the full exercise of the over-allotment option.

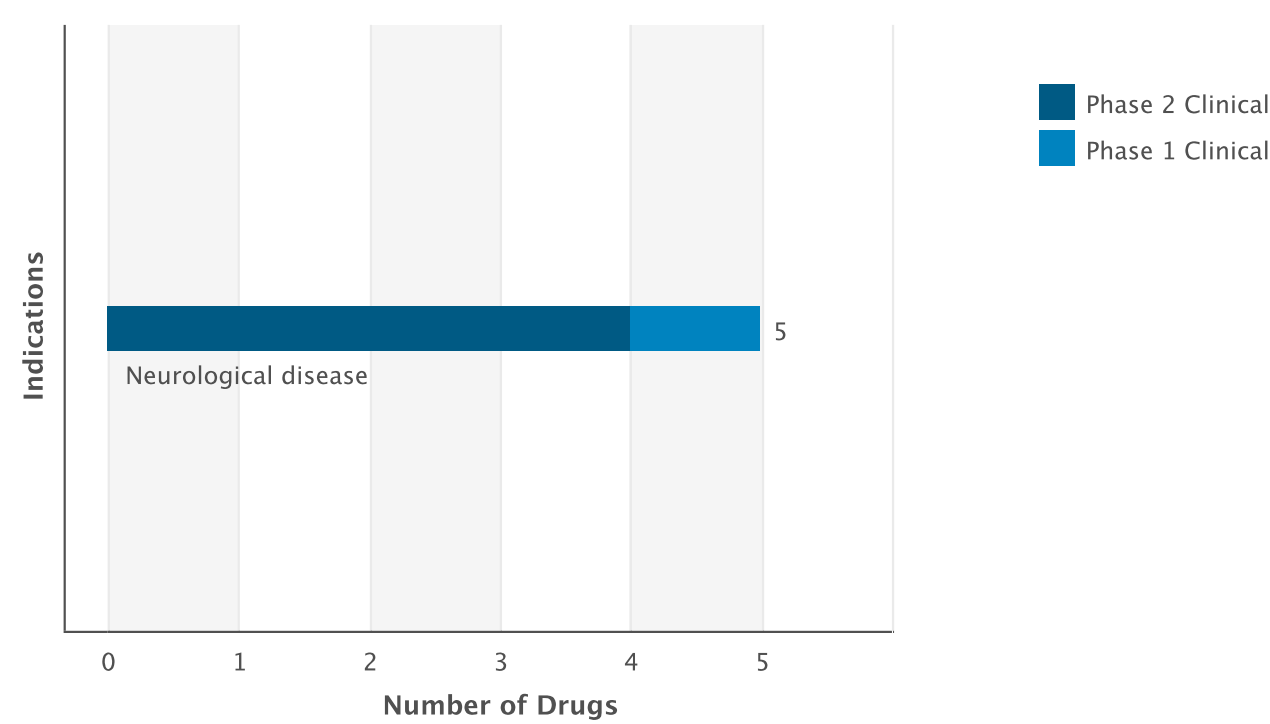
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# PRODUCT PORTFOLIO SUMMARY

## DRUGS

### Drugs by Indication

Active Drugs by Indication Chart



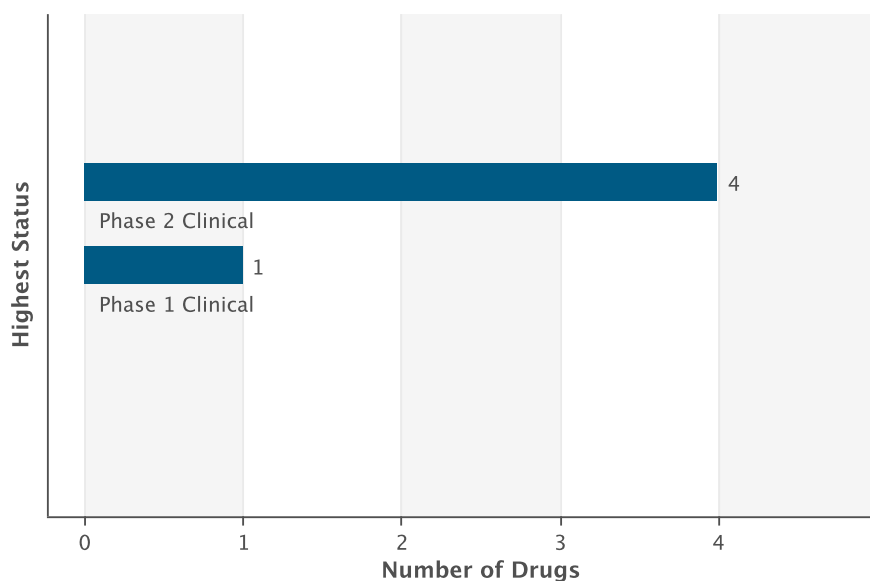
Drugs by Indication Table

Indication	Active	Inactive	Total
Neurological disease	5	1	6

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## Drugs by Highest Status

Active Drugs by Highest Status Chart



Drugs by Highest Status Table

Development Status	Number of Drugs
Phase 2 Clinical	4
Phase 1 Clinical	1
No Development Reported	1

## DEALS

Deal Type	Principal		Partner		Total
	Active	Inactive	Active	Inactive	
Patent - Exclusive Rights	0	0	1	0	1
Drug - Development/Commercialization License	0	0	1	0	1

## CLINICAL TRIALS

Trials by Condition Studied

Condition Studied	Ongoing	All
Neurological disease	1	4

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## Trials by Phase

Phase	Ongoing	All
Phase 2	1	3
Phase 1	0	1

### Phase Definitions

#### Phase 3 Clinical

Includes Phase 3, Phase 3b, Phase 3a, Phase 2/3 (where enrolment count is 300 or over)

#### Phase 2 Clinical

Includes Phase 2, Phase 2a, Phase 2b, Phase 1/2 (where enrolment count is 100 or over), Phase 2/3 (where enrolment count is under 300 or not specified)

#### Phase 1 Clinical

Includes Phase 1, Phase 1a, Phase 1, Phase 1/2 (where enrolment count is under 100 or not specified), Phase 0

## PATENTS \*

Indication	As Owner	As Third Party	Total
Cardiovascular disease	1	0	1
Musculoskeletal disease	3	0	3
Neurological disease	3	0	3
Inflammatory disease	2	0	2

\* This table represents a summary of the core patent coverage for this company covering Therapeutic EP, US and WO patents since 1990 only.

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## PRODUCT PORTFOLIO DRUG PIPELINE DETAIL

**PLEASE NOTE:** Highest status refers to highest development of that drug for one of the active companies

### dexmedetomidine (sublingual, pain), Recro Pharma

#### dexmedetomidine (sublingual, pain), Recro Pharma SNAPSHOT

<b>Drug Name</b>	dexmedetomidine (sublingual, pain), Recro Pharma
<b>Key Synonyms</b>	dexmedetomidine
<b>Originator Company</b>	Recro Pharma Inc
<b>Active Companies</b>	Recro Pharma Inc
<b>Inactive Companies</b>	
<b>Highest Status</b>	Phase 2 Clinical
<b>Active Indications</b>	Pain
<b>Target-based Actions</b>	Alpha 2 adrenoceptor agonist
<b>Other Actions</b>	Analgesic
<b>Technologies</b>	Buccal formulation systemic;Small molecule therapeutic
<b>Last Change Date</b>	21-May-2013

#### dexmedetomidine (sublingual, pain), Recro Pharma DEVELOPMENT PROFILE

##### SUMMARY

Recro Pharma is developing RP-1108 (DEX-SL, presumed to be RP-1100), a sublingual formulation of the alpha 2 agonist dexmedetomidine licensed from Orion, for the potential treatment of breakthrough pain,. By December 2011, phase II development was underway. In March 2012, the company was planning to complete development by late 2013 and expected to launch the drug by late 2014 or early 2015. In May 2013, the drug was listed as being in phase II development. At that time, the company anticipated a section 505(b)(2) regulatory strategy for the drug and planned on seeking to outlicense the drug in Europe, Turkey and the Commonwealth of Independent States.

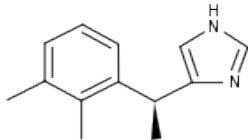
#### dexmedetomidine (sublingual, pain), Recro Pharma DEVELOPMENT STATUS

##### CURRENT DEVELOPMENT STATUS

Company	Indication	Country	Development Status	Date
Recro Pharma Inc	Pain	US	Phase 2 Clinical	06-Dec-2011

#### dexmedetomidine (sublingual, pain), Recro Pharma CHEMICAL STRUCTURES

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CAS Registry Number:	Confidence Level:
113775-47-6	1
	
Name	Type
dexmedetomidine	INN
MPV-1440	Research Code
DEX-SL	Research Code
DEX-IN	Research Code
DEX-TD	Research Code

#### dexmedetomidine (sublingual, pain), Recro Pharma DRUG NAMES

Names	Type
dexmedetomidine (sublingual, pain), Recro Pharma	
DEX-SL	Research Code
dexmedetomidine	INN
RP-1100	Research Code
RP-1108	Research Code

#### dexmedetomidine (sublingual, pain), Recro Pharma CLINICAL TRIALS

##### Trials by Phase and Condition Studied

Phase 4 Clinical		Phase 3 Clinical		Phase 2 Clinical		Phase 1 Clinical		Phase Unspecified		Total	
On-going	All	On-going	All	On-going	All	On-going	All	On-going	All	On-going	All
Lower back pain											
0	0	0	0	0	0	0	1	0	0	0	1

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Total Trials by Phase and Status

Phase 4 Clinical		Phase 3 Clinical		Phase 2 Clinical		Phase 1 Clinical		Phase Unspecified		Total	
On-going	All	On-going	All	On-going	All	On-going	All	On-going	All	On-going	All
Total by Phase and Status											
0	0	0	0	0	0	0	1	0	0	0	1

Phase Definitions

Phase 3 Clinical

Includes Phase 3, Phase 3b, Phase 3a, Phase 2/3 (where enrolment count is 300 or over)

Phase 2 Clinical

Includes Phase 2, Phase 2a, Phase 2b, Phase 1/2 (where enrolment count is 100 or over), Phase 2/3 (where enrolment count is under 300 or not specified)

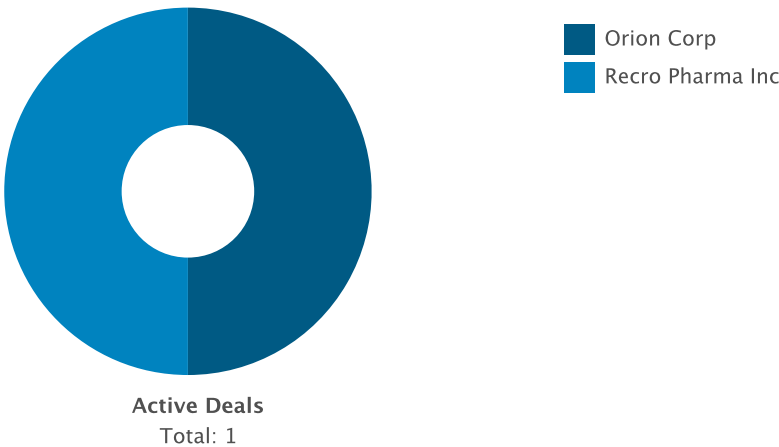
Phase 1 Clinical

Includes Phase 1, Phase 1a, Phase 1, Phase 1/2 (where enrolment count is under 100 or not specified), Phase 0

dexmedetomidine (sublingual, pain), Recro Pharma DEALS AND PATENTS

DEALS

Deals by Parent Company Chart



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Deals by Parent Company Table

Company Name	Principal		Partner		Total
	Active	Inactive	Active	Inactive	
Recro Pharma Inc	0	0	1	0	1
Orion Corp	1	0	0	0	1

Deals by Type Chart

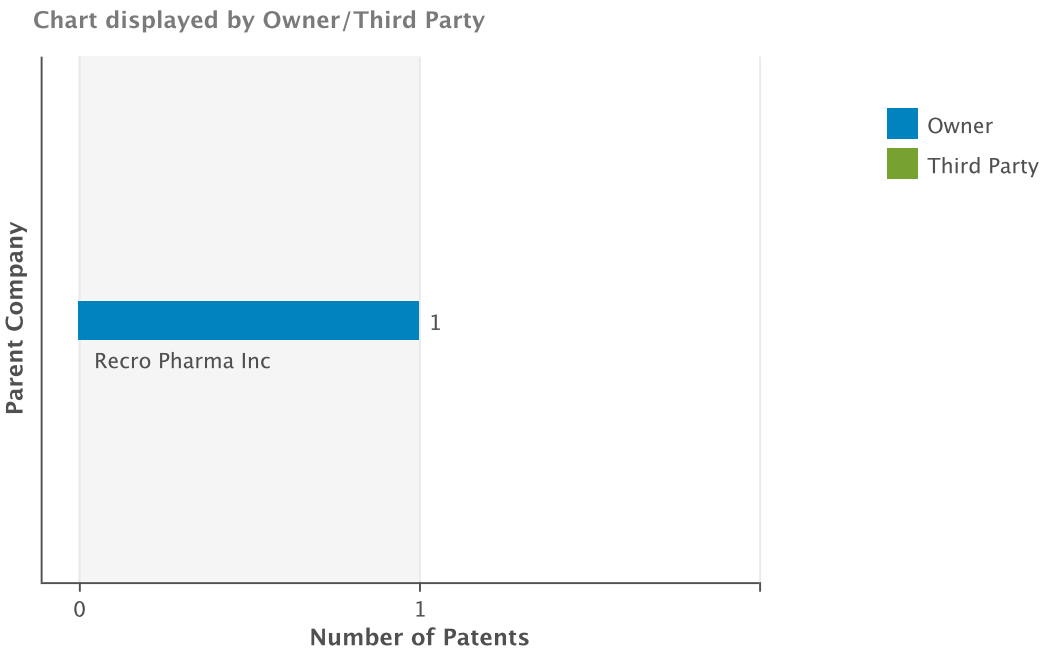


Deals by Type Table

Deal Type	Active	Inactive	Total
Patent - Exclusive Rights	1	0	1

PATENTS

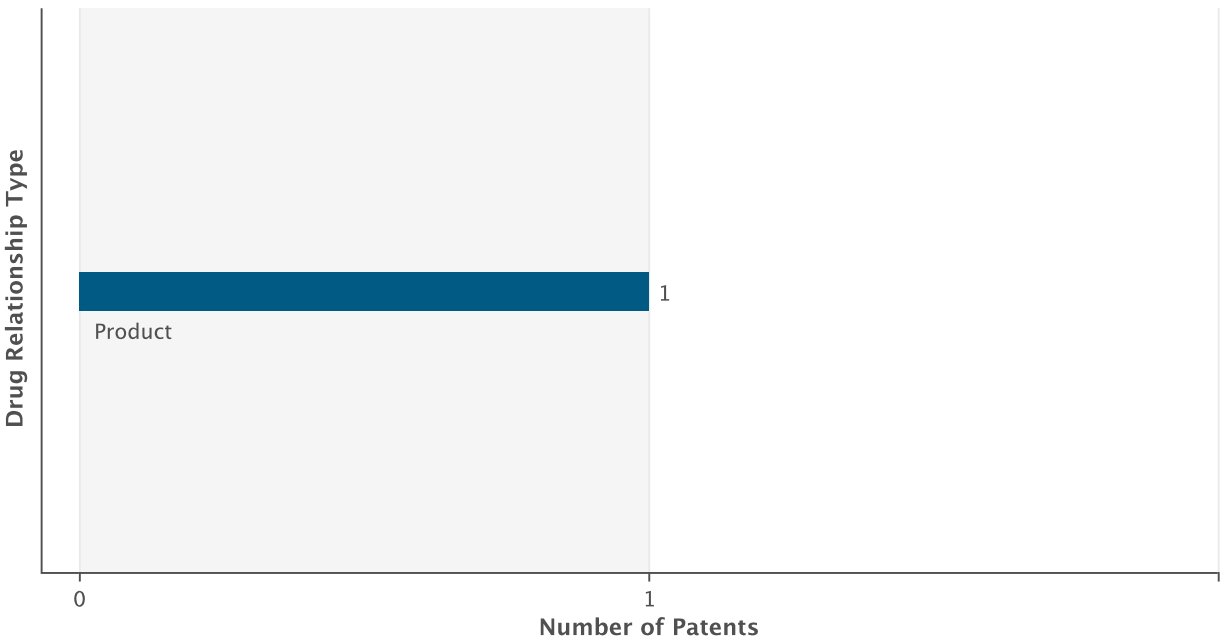
Patents by Parent Company Chart



Patents by Parent Company Table

Company Name	As Owner	As Third Party	Total
Recro Pharma Inc	1	0	1

Patents by Drug Relationship Type Chart



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Patents by Drug Relationship Type Table

Drug Relationship	Total
Product	1

**fadolmidine (intrathecal formulation, pain), Recro Pharma**

**fadolmidine (intrathecal formulation, pain), Recro Pharma SNAPSHOT**

Drug Name	fadolmidine (intrathecal formulation, pain), Recro Pharma
Key Synonyms	fadolmidine
Originator Company	Recro Pharma Inc
Active Companies	Recro Pharma Inc
Inactive Companies	
Highest Status	Phase 2 Clinical
Active Indications	Pain
Target-based Actions	Alpha 2 adrenoceptor agonist
Other Actions	Analgesic
Technologies	Small molecule therapeutic;Intrathecal formulation
Last Change Date	21-May-2013

**fadolmidine (intrathecal formulation, pain), Recro Pharma DEVELOPMENT PROFILE**

**SUMMARY**

Recro Pharma is developing FADO-IT, an intrathecal formulation of the alpha 2 agonist fadolmidine, for the potential treatment of pain. In May 2013, the drug was listed as being in phase II development.

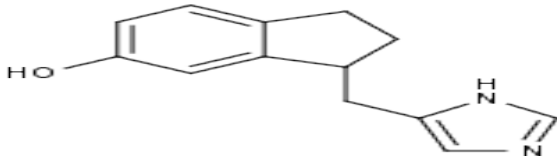
**fadolmidine (intrathecal formulation, pain), Recro Pharma DEVELOPMENT STATUS**

**CURRENT DEVELOPMENT STATUS**

Company	Indication	Country	Development Status	Date
Recro Pharma Inc	Pain	US	Phase 2 Clinical	14-May-2013

**fadolmidine (intrathecal formulation, pain), Recro Pharma CHEMICAL STRUCTURES**

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CAS Registry Number:	Confidence Level:
189353-31-9	1
	
Name	Type
fadolmidine	INN

### fadolmidine (intrathecal formulation, pain), Recro Pharma DRUG NAMES

Names	Type
fadolmidine (intrathecal formulation, pain), Recro Pharma	
FADO-IT	Research Code
fadolmidine	INN

### fadolmidine (intrathecal formulation, pain), Recro Pharma CLINICAL TRIALS

#### Trials by Phase and Condition Studied

Phase 4 Clinical		Phase 3 Clinical		Phase 2 Clinical		Phase 1 Clinical		Phase Unspecified		Total	
On-going	All	On-going	All	On-going	All	On-going	All	On-going	All	On-going	All
Pain											
0	0	0	0	0	1	0	0	0	0	0	1

#### Total Trials by Phase and Status

Phase 4 Clinical		Phase 3 Clinical		Phase 2 Clinical		Phase 1 Clinical		Phase Unspecified		Total	
On-going	All	On-going	All	On-going	All	On-going	All	On-going	All	On-going	All
Total by Phase and Status											
0	0	0	0	0	1	0	0	0	0	0	1

#### Phase Definitions

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### Phase 3 Clinical

Includes Phase 3, Phase 3b, Phase 3a, Phase 2/3 (where enrolment count is 300 or over)

### Phase 2 Clinical

Includes Phase 2, Phase 2a, Phase 2b, Phase 1/2 (where enrolment count is 100 or over), Phase 2/3 (where enrolment count is under 300 or not specified)

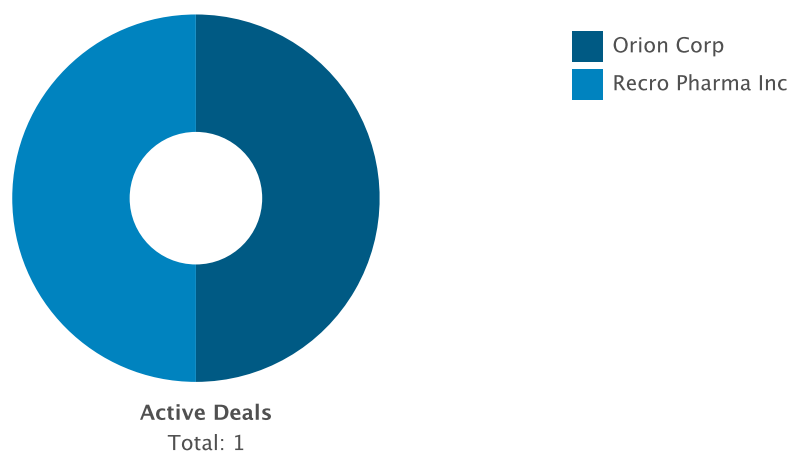
### Phase 1 Clinical

Includes Phase 1, Phase 1a, Phase 1, Phase 1/2 (where enrolment count is under 100 or not specified), Phase 0

## fadolmidine (intrathecal formulation, pain), Recro Pharma DEALS AND PATENTS

### DEALS

#### Deals by Parent Company Chart

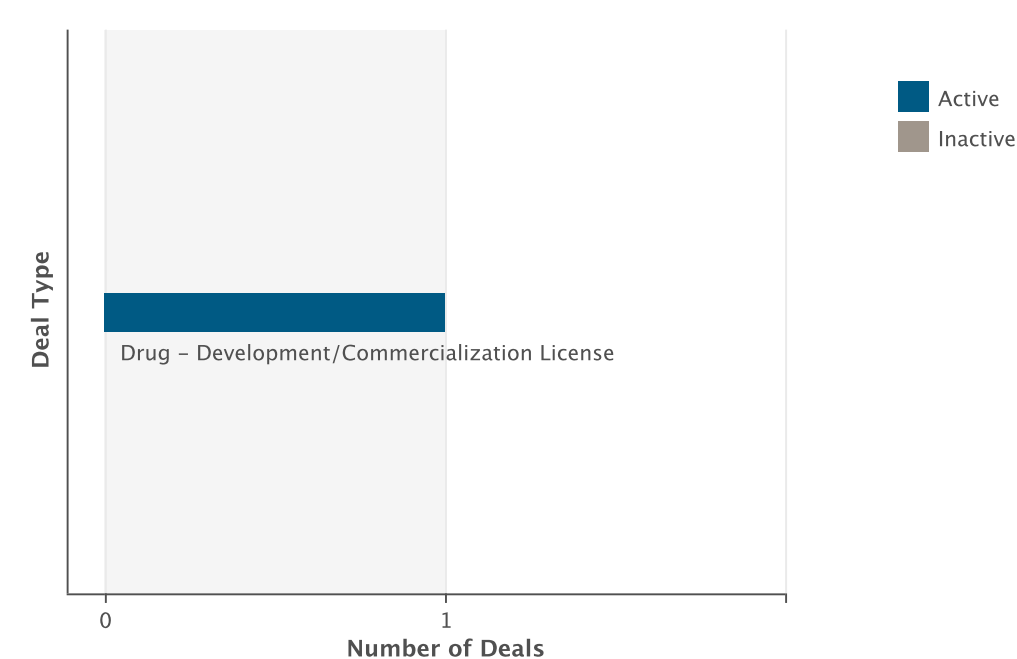


#### Deals by Parent Company Table

Company Name	Principal		Partner		Total
	Active	Inactive	Active	Inactive	
Recro Pharma Inc	0	0	1	0	1
Orion Corp	1	0	0	0	1

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Deals by Type Chart



Deals by Type Table

Deal Type	Active	Inactive	Total
Drug - Development/Commercialization License	1	0	1

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## dexmedetomidine (transdermal formulation, pain), Recro Pharma

### dexmedetomidine (transdermal formulation, pain), Recro Pharma SNAPSHOT

Drug Name	dexmedetomidine (transdermal formulation, pain), Recro Pharma
Key Synonyms	dexmedetomidine
Originator Company	Recro Pharma Inc
Active Companies	Recro Pharma Inc
Inactive Companies	
Highest Status	Phase 2 Clinical
Active Indications	Pain
Target-based Actions	Alpha 2 adrenoceptor agonist
Other Actions	Analgesic
Technologies	Small molecule therapeutic;Transdermal formulation
Last Change Date	21-May-2013

### dexmedetomidine (transdermal formulation, pain), Recro Pharma DEVELOPMENT PROFILE

#### SUMMARY

Recro Pharma is developing RP-1008 (DEX-TD), a transdermal formulation of the alpha 2 agonist dexmedetomidine licensed from Orion, for the potential adjunctive management of severe, intractable pain including cancer pain. In May 2013, the drug was listed as being in phase II development. At that time, the company anticipated a section 505(b)(2) regulatory strategy for the drug and planned on seeking to outlicense the drug in Europe, Turkey and the Commonwealth of Independent States.

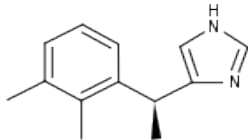
### dexmedetomidine (transdermal formulation, pain), Recro Pharma DEVELOPMENT STATUS

#### CURRENT DEVELOPMENT STATUS

Company	Indication	Country	Development Status	Date
Recro Pharma Inc	Pain	US	Phase 2 Clinical	14-May-2013

### dexmedetomidine (transdermal formulation, pain), Recro Pharma CHEMICAL STRUCTURES

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CAS Registry Number:	Confidence Level:
113775-47-6	1
	
Name	Type
dexmedetomidine	INN
DEX-TD	Research Code
DEX-SL	Research Code
MPV-1440	Research Code
DEX-IN	Research Code

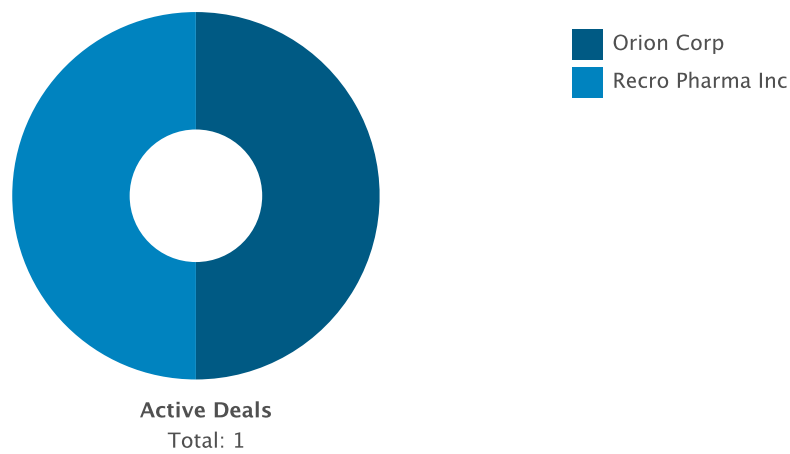
#### dexmedetomidine (transdermal formulation, pain), Recro Pharma DRUG NAMES

Names	Type
RP-1008	Research Code
DEX-TD	Research Code
dexmedetomidine	INN
dexmedetomidine (transdermal formulation, pain), Recro Pharma	

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DEALS

Deals by Parent Company Chart



Deals by Parent Company Table

Company Name	Principal		Partner		Total
	Active	Inactive	Active	Inactive	
Orion Corp	1	0	0	0	1
Recro Pharma Inc	0	0	1	0	1

Deals by Type Chart



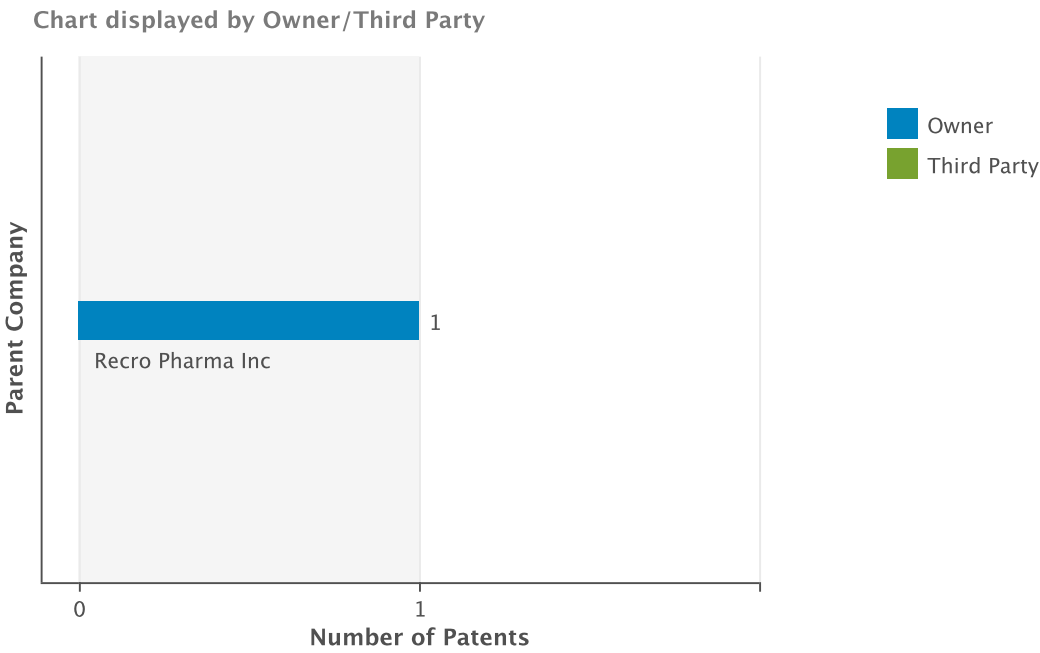
Deals by Type Table

Deal Type	Active	Inactive	Total
Patent - Exclusive Rights	1	0	1

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PATENTS

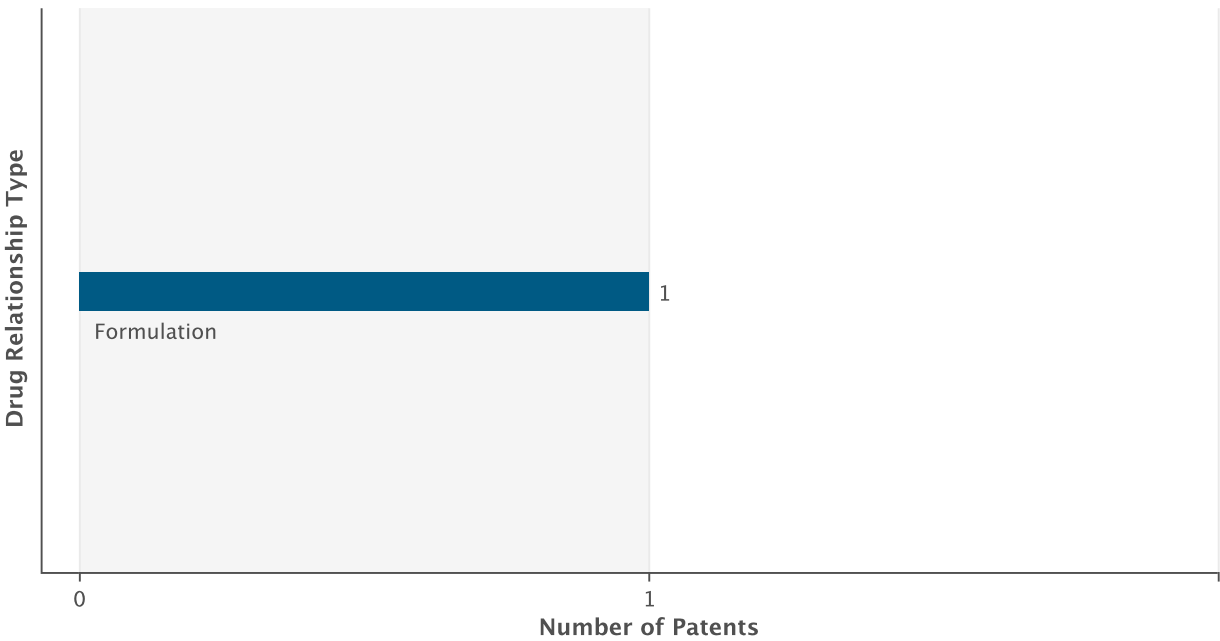
Patents by Parent Company Chart



Patents by Parent Company Table

Company Name	As Owner	As Third Party	Total
Recro Pharma Inc	1	0	1

Patents by Drug Relationship Type Chart



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Patents by Drug Relationship Type Table

Drug Relationship	Total
Formulation	1



## dexmedetomidine (intranasal, pain), Recro Pharma

### dexmedetomidine (intranasal, pain), Recro Pharma SNAPSHOT

Drug Name	dexmedetomidine (intranasal, pain), Recro Pharma
Key Synonyms	
Originator Company	Recro Pharma Inc
Active Companies	Recro Pharma Inc
Inactive Companies	
Highest Status	Phase 2 Clinical
Active Indications	Pain
Target-based Actions	Alpha 2 adrenoceptor agonist
Other Actions	Analgesic
Technologies	Small molecule therapeutic;Systemic formulation unspecified;Nasal formulation
Last Change Date	30-Oct-2014

### dexmedetomidine (intranasal, pain), Recro Pharma DEVELOPMENT PROFILE

#### SUMMARY

Recro Pharma is developing Dex-IN, an intranasal formulation of the alpha 2 agonist dexmedetomidine licensed from Orion, for the potential intranasal treatment of breakthrough pain including cancer pain,. In May 2013, the drug was listed as being in phase II development . In June 2014, a phase IIb trial was initiated . In September 2014, the company planned to initiate a revised trial in fourth quarter of 2014 and top-line data were expected by mid-2015. In October 2014, further data from the trial were reported. In May 2013, the company planned on seeking to outlicense the drug in Europe, Turkey and the Commonwealth of Independent States.

### dexmedetomidine (intranasal, pain), Recro Pharma DEVELOPMENT STATUS

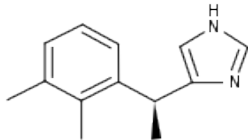
#### CURRENT DEVELOPMENT STATUS

Company	Indication	Country	Development Status	Date
Recro Pharma Inc	Pain	US	Phase 2 Clinical	14-May-2013

### dexmedetomidine (intranasal, pain), Recro Pharma CHEMICAL STRUCTURES

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CAS Registry Number:	Confidence Level:
113775-47-6	1
	
Name	Type
dexmedetomidine	INN
MPV-1440	Research Code
DEX-TD	Research Code
DEX-IN	Research Code
DEX-SL	Research Code

#### dexmedetomidine (intranasal, pain), Recro Pharma DRUG NAMES

Names	Type
dexmedetomidine (intranasal, pain), Recro Pharma	
DEX-IN	Research Code

#### dexmedetomidine (intranasal, pain), Recro Pharma CLINICAL TRIALS

##### Trials by Phase and Condition Studied

Phase 4 Clinical		Phase 3 Clinical		Phase 2 Clinical		Phase 1 Clinical		Phase Unspecified		Total	
On-going	All	On-going	All	On-going	All	On-going	All	On-going	All	On-going	All
Pain											
0	0	0	0	1	2	0	0	0	0	1	2

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Total Trials by Phase and Status

Phase 4 Clinical		Phase 3 Clinical		Phase 2 Clinical		Phase 1 Clinical		Phase Unspecified		Total	
On-going	All	On-going	All	On-going	All	On-going	All	On-going	All	On-going	All
Total by Phase and Status											
0	0	0	0	1	2	0	0	0	0	1	2

Phase Definitions

Phase 3 Clinical

Includes Phase 3, Phase 3b, Phase 3a, Phase 2/3 (where enrolment count is 300 or over)

Phase 2 Clinical

Includes Phase 2, Phase 2a, Phase 2b, Phase 1/2 (where enrolment count is 100 or over), Phase 2/3 (where enrolment count is under 300 or not specified)

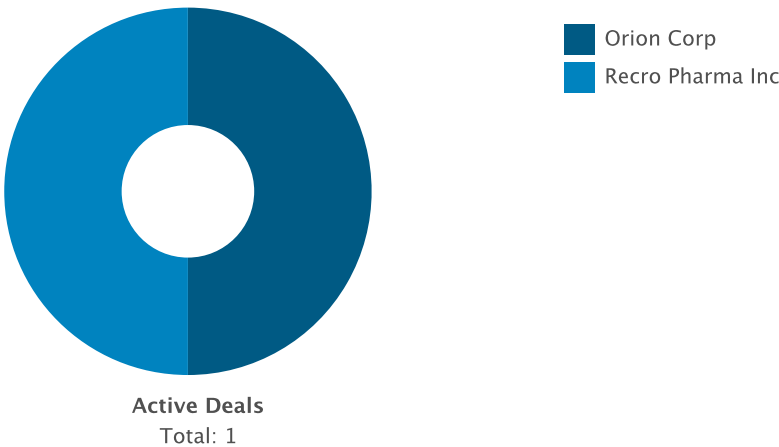
Phase 1 Clinical

Includes Phase 1, Phase 1a, Phase 1, Phase 1/2 (where enrolment count is under 100 or not specified), Phase 0

dexmedetomidine (intranasal, pain), Recro Pharma DEALS AND PATENTS

DEALS

Deals by Parent Company Chart



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Deals by Parent Company Table

Company Name	Principal		Partner		Total
	Active	Inactive	Active	Inactive	
Recro Pharma Inc	0	0	1	0	1
Orion Corp	1	0	0	0	1

Deals by Type Chart

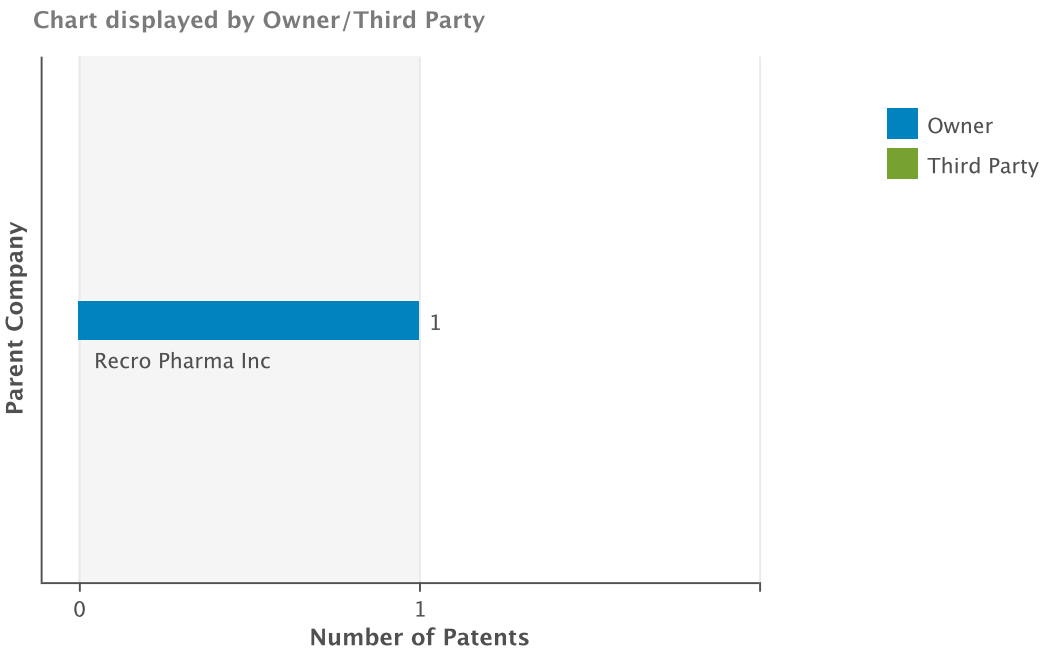


Deals by Type Table

Deal Type	Active	Inactive	Total
Patent - Exclusive Rights	1	0	1

PATENTS

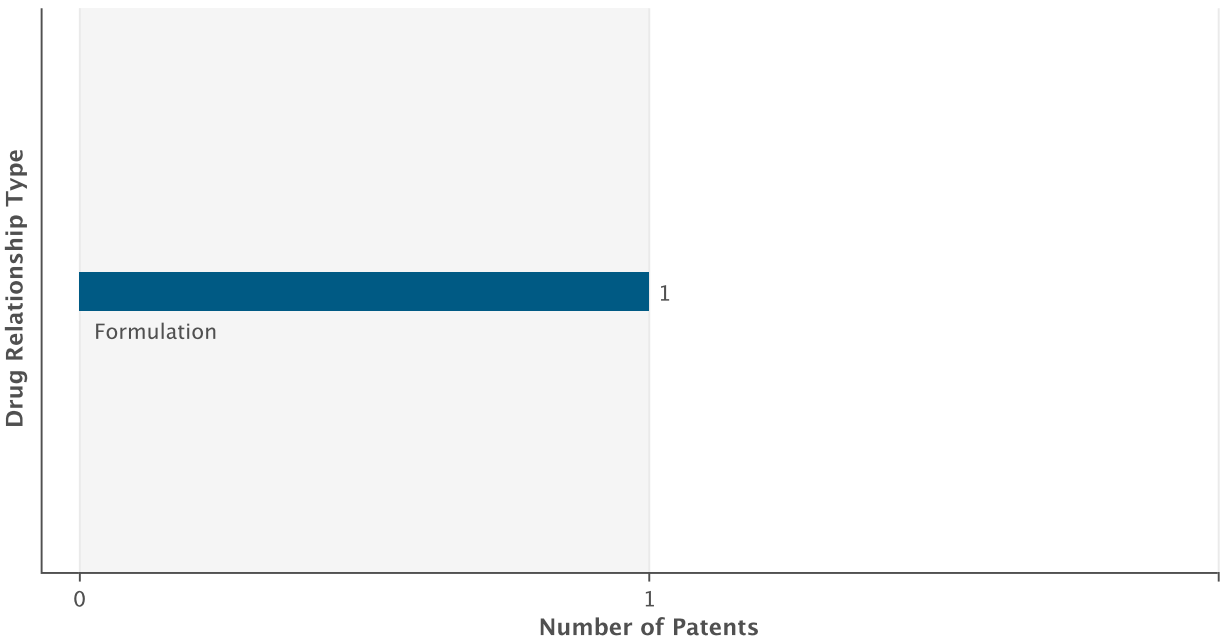
Patents by Parent Company Chart



Patents by Parent Company Table

Company Name	As Owner	As Third Party	Total
Recro Pharma Inc	1	0	1

Patents by Drug Relationship Type Chart



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Patents by Drug Relationship Type Table

Drug Relationship	Total
Formulation	1

**fadolmidine (topical, neuropathic pain), Recro Pharma**

**fadolmidine (topical, neuropathic pain), Recro Pharma SNAPSHOT**

Drug Name	fadolmidine (topical, neuropathic pain), Recro Pharma
Key Synonyms	fadolmidine
Originator Company	Recro Pharma Inc
Active Companies	Recro Pharma Inc
Inactive Companies	
Highest Status	Phase 1 Clinical
Active Indications	Neuropathic pain
Target-based Actions	Alpha 2 adrenoceptor agonist
Other Actions	Analgesic
Technologies	Small molecule therapeutic;Transdermal formulation
Last Change Date	17-May-2013

**fadolmidine (topical, neuropathic pain), Recro Pharma DEVELOPMENT PROFILE**

**SUMMARY**

Recro Pharma is developing FADO-TP, a topical formulation of the alpha 2 agonist fadolmidine, for the potential treatment of pain associated with regional neuropathies. In May 2013, the drug was listed as being in phase I development. At that time, the company planned on seeking to outlicense the drug in Europe, Turkey and the Commonwealth of Independent States.

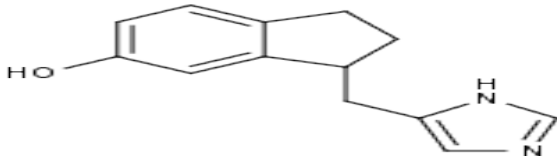
**fadolmidine (topical, neuropathic pain), Recro Pharma DEVELOPMENT STATUS**

**CURRENT DEVELOPMENT STATUS**

Company	Indication	Country	Development Status	Date
Recro Pharma Inc	Neuropathic pain	US	Phase 1 Clinical	14-May-2013

**fadolmidine (topical, neuropathic pain), Recro Pharma CHEMICAL STRUCTURES**

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CAS Registry Number:	Confidence Level:
189353-31-9	1
	
Name	Type
fadolmidine	INN

### **fadolmidine (topical, neuropathic pain), Recro Pharma DRUG NAMES**

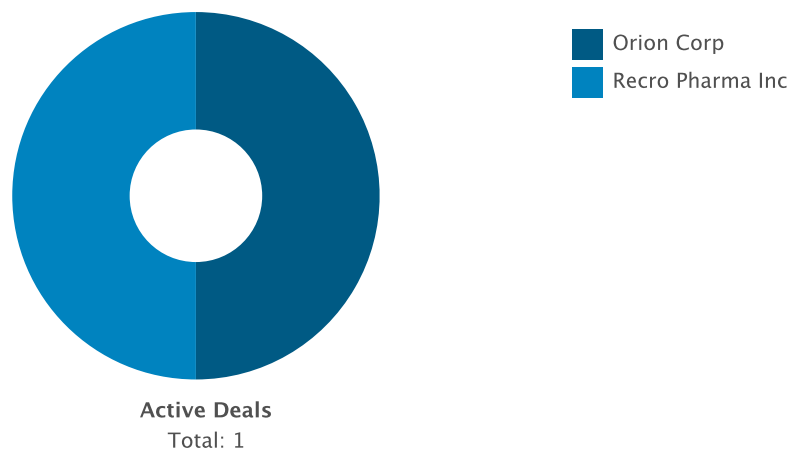
Names	Type
fadolmidine (topical, neuropathic pain), Recro Pharma	
FADO-TP	Research Code
fadolmidine	INN

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DEALS

Deals by Parent Company Chart

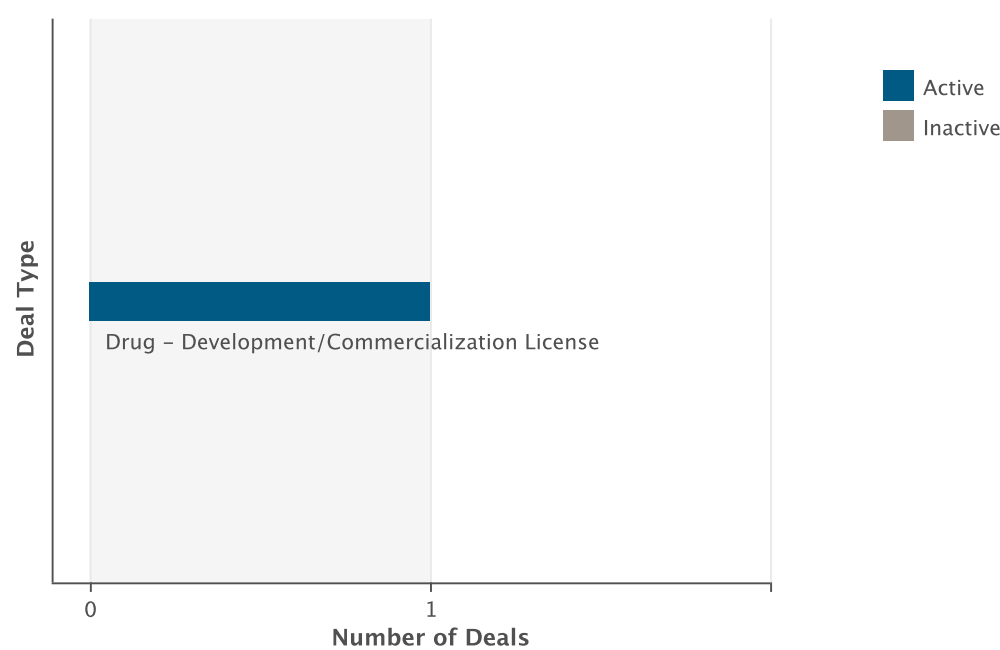


Deals by Parent Company Table

Company Name	Principal		Partner		Total
	Active	Inactive	Active	Inactive	
Orion Corp	1	0	0	0	1
Recro Pharma Inc	0	0	1	0	1

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Deals by Type Chart



Deals by Type Table

Deal Type	Active	Inactive	Total
Drug - Development/Commercialization License	1	0	1

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