

Trevena 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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[Return to Table of Contents](#)

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[Return to Table of Contents](#)



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i.e. where the development status for the drug(s) is one of the following: No Development Reported, Discontinued, or Withdrawn.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.

[Return to Table of Contents](#)



TABLE OF CONTENTS

Company Overview..... 5

Company Profile..... 6

Product Portfolio Summary..... 7

Product Portfolio Drug Pipeline Detail..... 10

 Phase 2 Clinical..... 11

 Phase 1 Clinical..... 20

 Discovery..... 24

[Return to Table of Contents](#)

Trevena Inc

COMPANY OVERVIEW

Company Name	Trevena Inc
Parent Company Name	Trevena Inc
Website	http://www.trevenainc.com/
Country	US
Number of Drugs in Active Development	4
Number of Inactive Drugs	5
Number of Patents as Owner	4
Number of Patents as Third Party	0
Number of Deals	7
Key Indications	Pain,Migraine,Cardiac failure,Depression,Overactive bladder,Parkinsons disease,Viral infection,Cardiovascular disease,Retinopathy,Angina,Aortic aneurysm,Congestive heart failure,Hypertension,Ileus,Intestine disease,Myocardial disease,Myocardial infarction,Myocarditis,Pre-eclampsia,Respiratory depression
Key Target-based Actions	Opioid receptor mu agonist,Beta-arrestin inhibitor,Opioid receptor delta agonist,Opioid receptor kappa agonist,Unspecified GPCR modulator,Beta-arrestin stimulator,Angiotensin II AT-1 receptor antagonist,Opioid receptor modulator,Angiotensin II AT-1 receptor modulator,Opioid receptor delta modulator,Opioid receptor kappa modulator,Opioid receptor mu modulator
Key Technologies	Small molecule therapeutic,Intravenous formulation,Oral formulation,Capsule formulation,Peptide,Peptidomimetic

COMPANY PROFILE

SUMMARY

Trevena is a drug discovery company focused on the development of G-protein coupled receptor-targeting pharmaceuticals.

LICENSING AGREEMENTS

In February 2009, Ligand entered into a 2-year agreement with Trevena, to screen Ligand's combinatorial compound library using Trevena's technology for 24 potential targets to develop as G-protein coupled receptor (GPCR) therapeutics. Trevena would be granted exclusive worldwide rights to sublicense active candidates resulting from the collaboration, and Ligand would receive payments based on progression of each chosen target.

EARLY R&D

In February 2010, the company was investigating three G-protein biased GPCR therapeutics for pain, which were in target validation, hit identification, and lead optimization, respectively.

By March 2008, Trevena had licensed a drug discovery platform from Duke University Medical Center.

FINANCIAL

In September 2014, the company entered into a senior secured term loan credit facility providing for up to \$35 million of funding, with an interest rate of 6.5% per annum. A total of \$2 million was drawn at closing. Trevena had the option to draw the remaining funds in two equal tranches of \$16.5 million each, upon positive clinical data in the ongoing TRV-130 and TRV-027 studies. The maturity date for the credit facility was December 01, 2018. At the maturity date, a fee of between 5.25% and 7.0% of the amount borrowed would be due and under certain circumstances, the maturity date might be extended to September 01, 2019.

In January 2014, the company announced the pricing of 8,500,000 shares of common stock priced at US \$7.00 per share, and the underwriters were granted a 30-day option to purchase upto 1,275,000 additional shares at the same price. At that time, the offering was expected to close on February 05, 2014. Later that month, the company increased

[Return to Table of Contents](#)



the number of common stock shares in the initial public offering to 9.25 million and priced the offering at \$7 per share. The underwriters were granted a 30-day option to buy up to an additional 1,387,500 common stock shares at the same price. The shares began trading on the NASDAQ Global Market under the ticker symbol 'TRVN'. In February 2014, the IPO was closed. In March 2014, the underwriters over-allotment option was partially exercised and an additional 270,449 shares were purchased at a price of \$7 per share. The offering was closed on March 06, 2014 with the total issue of 9,520,499 shares. Gross proceeds of approximately \$67 million was raised.

In October 2013, Trevena proposed a initial public offering of shares of its common stock. the company also applied to list its common stock on the NASDAQ under the ticker symbol 'TRVN'.

In July 2010, Trevena completed a \$35 million series B financing.

In March 2008, Trevena raised \$24 million from a series A financing round.

R&D GRANTS

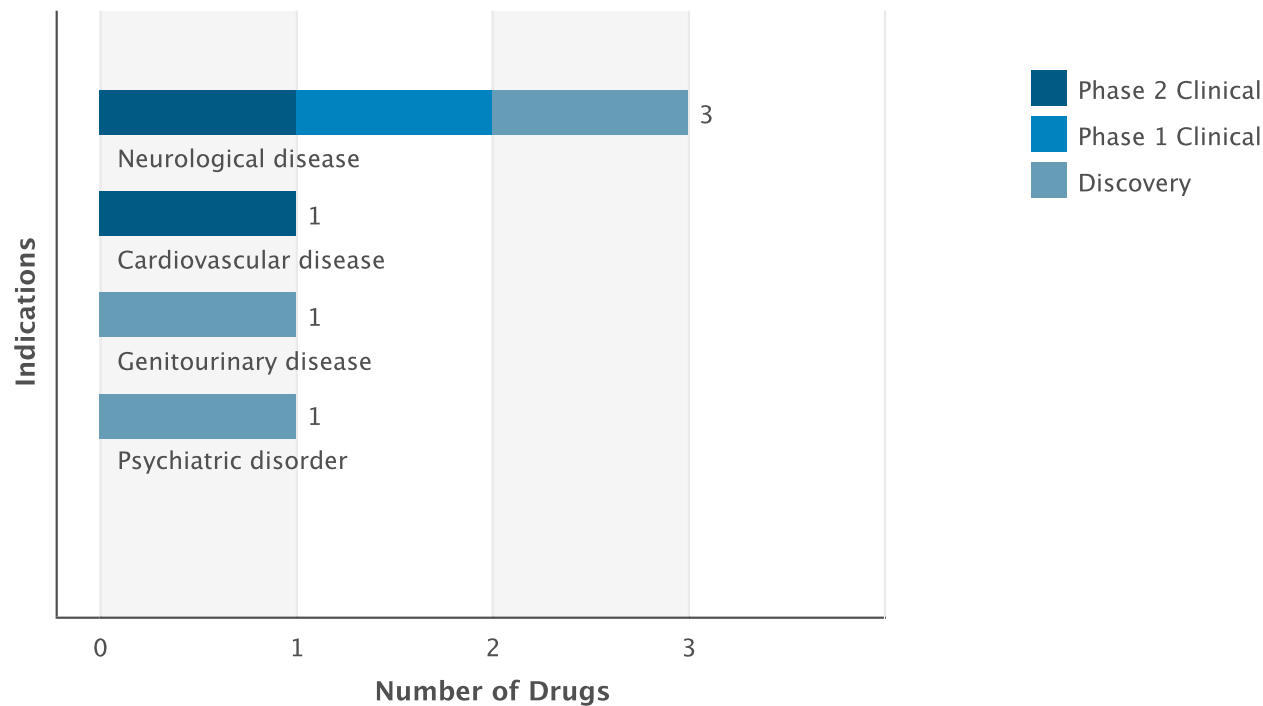
In November 2009, the National Institutes of Health (NIH) awarded Trevena a \$7.65 million Grand Opportunity (GO) Grant to further fund the company's work to identify and characterize functionally selective biased GPCR ligands.

PRODUCT PORTFOLIO SUMMARY

DRUGS

Drugs by Indication

Active Drugs by Indication Chart



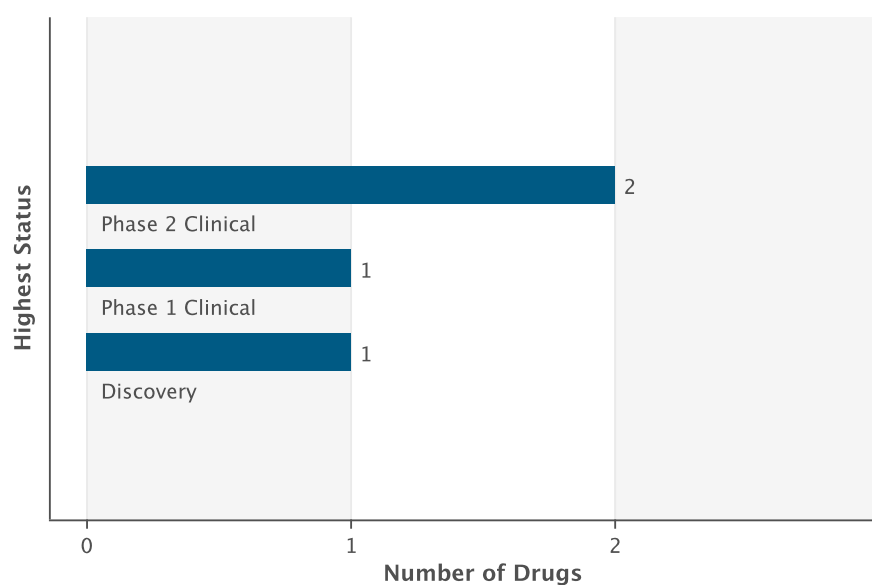
[Return to Table of Contents](#)

Drugs by Indication Table

Indication	Active	Inactive	Total
Neurological disease	3	3	6
Genitourinary disease	1	0	1
Inflammatory disease	0	1	1
Nutritional disorder	0	1	1
Psychiatric disorder	1	0	1
Cardiovascular disease	1	0	1

Drugs by Highest Status

Active Drugs by Highest Status Chart



Drugs by Highest Status Table

Development Status	Number of Drugs
Phase 2 Clinical	2
Phase 1 Clinical	1
Discovery	1
No Development Reported	5

[Return to Table of Contents](#)

DEALS

Deal Type	Principal		Partner		Total
	Active	Inactive	Active	Inactive	
Drug - Funding	2	0	0	0	2
Technology - Asset Divestment	0	0	1	0	1
Drug - Screening/Evaluation	1	0	0	0	1
Drug - Development/Commercialization License	1	0	0	0	1
Drug - Development Services	0	0	1	0	1
Technology - Target Validation	0	0	1	0	1

CLINICAL TRIALS

Trials by Condition Studied

Condition Studied	Ongoing	All
Cardiovascular disease	1	4
Neurological disease	0	2

Trials by Phase

Phase	Ongoing	All
Phase 2	1	3
Phase 1	2	8

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	2	0	2
Gastrointestinal disease	1	0	1
Ocular disease	1	0	1
Neurological disease	3	0	3

[Return to Table of Contents](#)



Respiratory disease	1	0	1
Infectious disease	2	0	2
Gynecology and obstetrics	1	0	1

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

[Return to Table of Contents](#)

PRODUCT PORTFOLIO DRUG PIPELINE DETAIL

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

TRV-130

TRV-130 SNAPSHOT

Drug Name	TRV-130
Key Synonyms	
Originator Company	Trevena Inc
Active Companies	Trevena Inc
Inactive Companies	
Highest Status	Phase 2 Clinical
Active Indications	Pain
Target-based Actions	Beta-arrestin inhibitor;Opioid receptor mu agonist
Other Actions	Analgesic
Technologies	Intravenous formulation;Small molecule therapeutic
Last Change Date	18-Nov-2014

TRV-130 DEVELOPMENT PROFILE

SUMMARY

Trevena is developing TRV-130 (TRV-130A), a G protein-biased mu opioid receptor ligand, and antagonizes the beta-arrestin pathway, for the potential iv treatment of post-operative pain , . In April 2014, a phase II bunionectomy trial was initiated in the US. In November 2014, top-line data were reported. In March 2014, another phase II trial in a second surgery type was expected in the fourth quarter of 2014. In May 2014, the company was planning a phase III trial . In March 2012, the company was seeking to outlicense TRV-130.

TRV-130 DEVELOPMENT STATUS

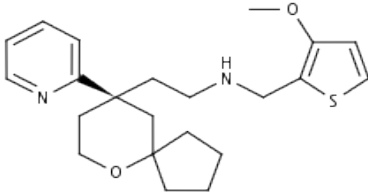
CURRENT DEVELOPMENT STATUS

Company	Indication	Country	Development Status	Date
Trevena Inc	Pain	US	Phase 2 Clinical	01-Apr-2014

TRV-130 CHEMICAL STRUCTURES

[Return to Table of Contents](#)



CAS Registry Number:	Confidence Level:
	3
	
Name	Type
TRV-130	Research Code

TRV-130 DRUG NAMES

Names	Type
TRV-130A	Research Code
TRV-130	Research Code

TRV-130 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	1	3	0	0	1	4

Phase Definitions

Phase 3 Clinical

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

[Return to Table of Contents](#)

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

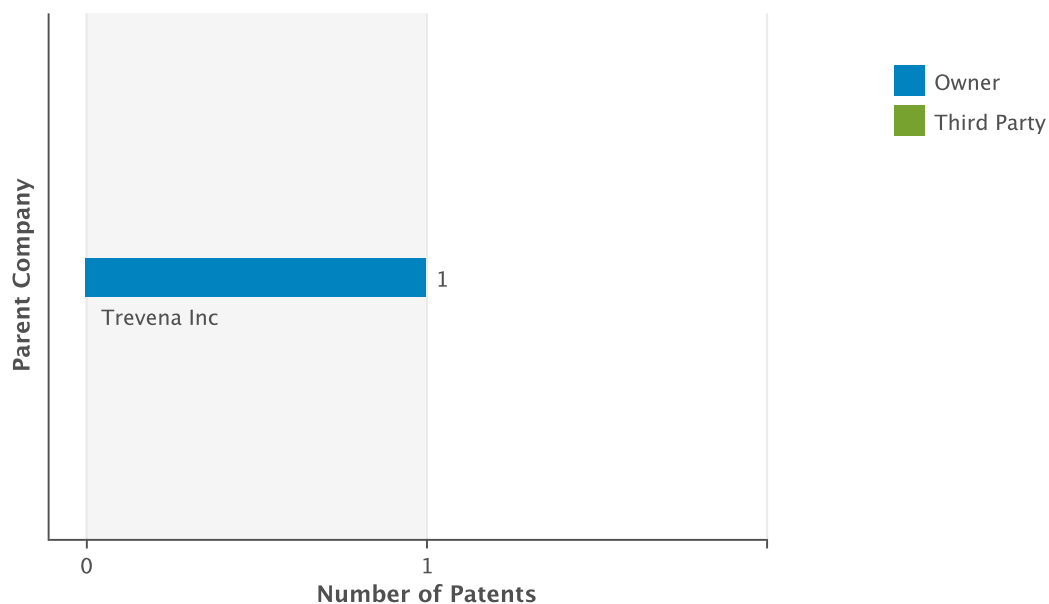
Includes Phase 1, Phase 1a, Phase 1, Phase 1/2 (where enrolment count is under 100 or not specified), Phase 0

TRV-130 DEALS AND PATENTS

PATENTS

Patents by Parent Company Chart

Chart displayed by Owner/Third Party

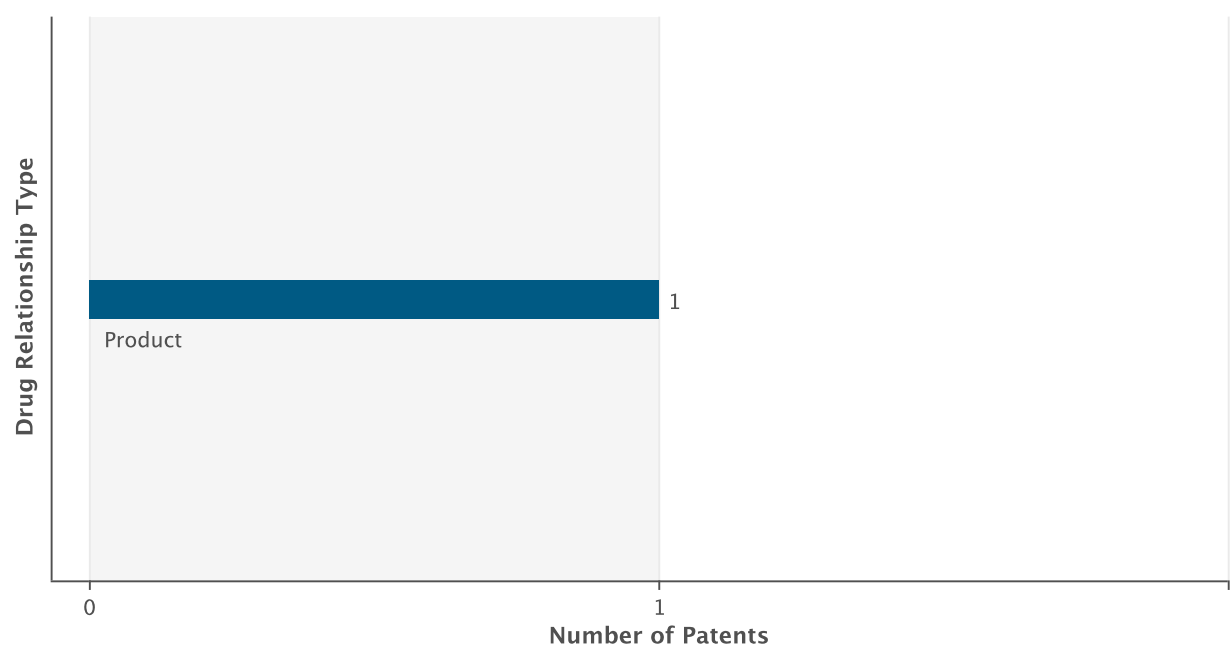


Patents by Parent Company Table

Company Name	As Owner	As Third Party	Total
Trevena Inc	1	0	1

[Return to Table of Contents](#)

Patents by Drug Relationship Type Chart



Patents by Drug Relationship Type Table

Drug Relationship	Total
Product	1

[Return to Table of Contents](#)

TRV-027

TRV-027 SNAPSHOT

Drug Name	TRV-027
Key Synonyms	
Originator Company	Ligand Pharmaceuticals Inc
Active Companies	Actavis plc;Trevena Inc
Inactive Companies	Forest Laboratories Inc;Ligand Pharmaceuticals Inc
Highest Status	Phase 2 Clinical
Active Indications	Cardiac failure
Target-based Actions	Beta-arrestin stimulator;Angiotensin II AT-1 receptor antagonist
Other Actions	Cardioprotectant;Vasodilator
Technologies	Intravenous formulation;Infusion;Biological therapeutic;Peptide
Last Change Date	12-Nov-2014

TRV-027 DEVELOPMENT PROFILE

SUMMARY

Trevena, (under license from Ligand Pharmaceuticals) presumed to be in collaboration with Actavis, following its acquisition of Forest Laboratories, is developing TRV-027 (TRV-120027), the lead peptide from a program of beta-arrestin biased GPCR ligands that inhibit the angiotensin II type 1 receptor, including TRV-120023, for the potential intravenous treatment of acute decompensated heart failure (ADHF),,,,,,. In December 2010, a phase I/II trial in heart failure patients was initiated in the US ; in March 2012, the drug was in phase IIa development . By April 2012, a trial had been initiated in Poland and Czech Republic ; in October 2012, data from phase IIa trial were reported. In January 2014, the phase IIb BLAST-AHF trial was initiated in the US; in August 2014, data were expected in the fourth quarter of 2015. In March 2012, Trevena was seeking to outlicense TRV-027 .

TRV-027 DEVELOPMENT STATUS

CURRENT DEVELOPMENT STATUS

Company	Indication	Country	Development Status	Date
Actavis plc	Cardiac failure	US	Phase 2 Clinical	01-Jul-2014
Trevena Inc	Cardiac failure	Czech Republic	Phase 2 Clinical	13-Apr-2012
Trevena Inc	Cardiac failure	Poland	Phase 2 Clinical	13-Apr-2012
Trevena Inc	Cardiac failure	US	Phase 2 Clinical	31-Dec-2010
Ligand Pharmaceuticals Inc	Cardiac failure	US	Discontinued	08-Feb-2010

[Return to Table of Contents](#)



TRV-027 DRUG NAMES

Names	Type
TRV-120027	Research Code
TRV-120023	Research Code
beta-arrestin biased GPCR ligands (acute heart failure), Ligand/Trevena	
TRV-027	Research Code

TRV-027 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
Cardiac failure											
0	0	0	0	0	1	0	2	0	0	0	3
Acute decompensated heart failure											
0	0	0	0	1	1	0	0	0	0	1	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	1	2	0	3	0	0	1	5

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

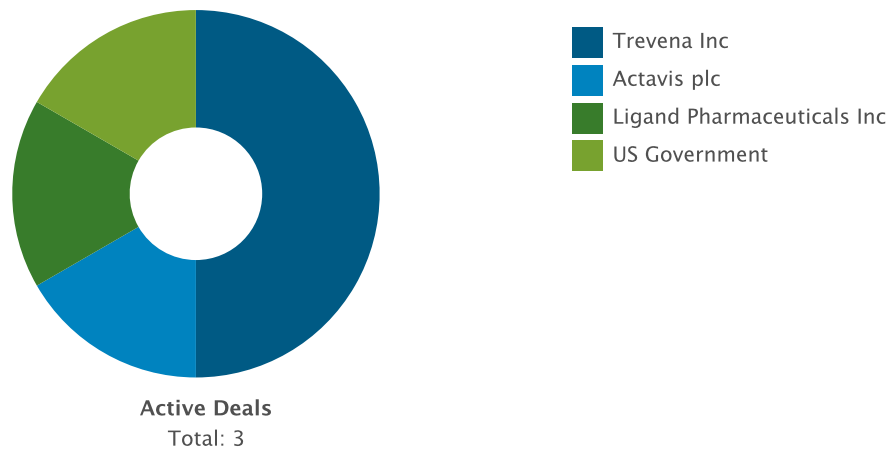
[Return to Table of Contents](#)



TRV-027 DEALS AND PATENTS

DEALS

Deals by Parent Company Chart

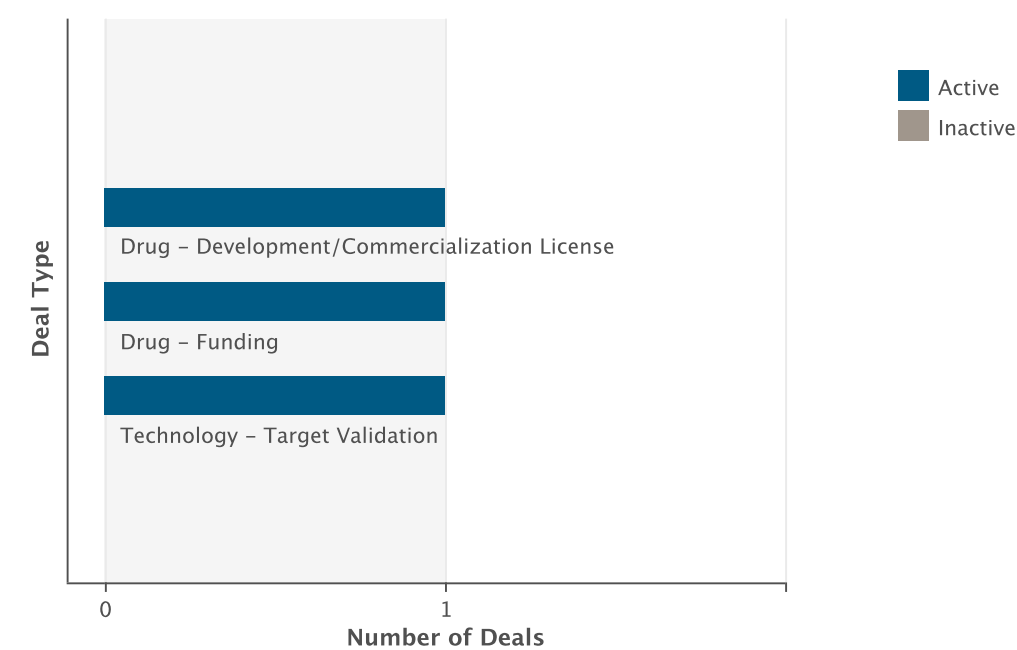


Deals by Parent Company Table

Company Name	Principal		Partner		Total
	Active	Inactive	Active	Inactive	
Trevena Inc	2	0	1	0	3
US Government	0	0	1	0	1
Ligand Pharmaceuticals Inc	1	0	0	0	1
Actavis plc	0	0	1	0	1

[Return to Table of Contents](#)

Deals by Type Chart



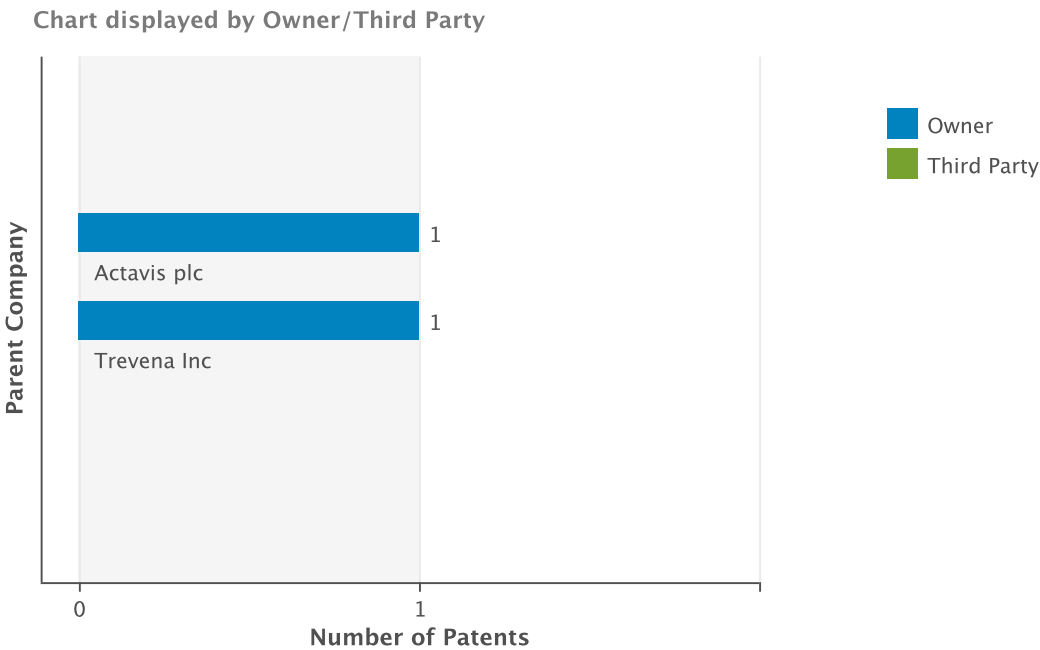
Deals by Type Table

Deal Type	Active	Inactive	Total
Drug - Funding	1	0	1
Drug - Development/Commercialization License	1	0	1
Technology - Target Validation	1	0	1

[Return to Table of Contents](#)

PATENTS

Patents by Parent Company Chart

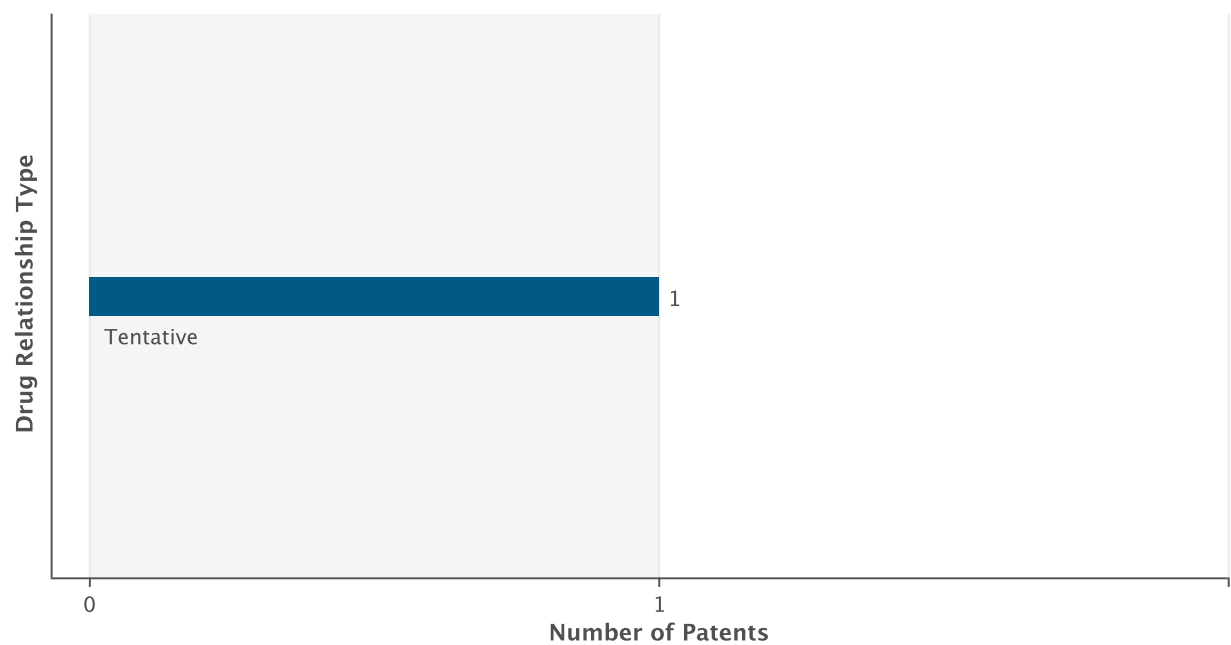


Patents by Parent Company Table

Company Name	As Owner	As Third Party	Total
Trevena Inc	1	0	1
Actavis plc	1	0	1

[Return to Table of Contents](#)

Patents by Drug Relationship Type Chart



Patents by Drug Relationship Type Table

Drug Relationship	Total
Tentative	1

[Return to Table of Contents](#)

TRV-734

TRV-734 SNAPSHOT

Drug Name	TRV-734
Key Synonyms	
Originator Company	Trevena Inc
Active Companies	Trevena Inc
Inactive Companies	
Highest Status	Phase 1 Clinical
Active Indications	Pain
Target-based Actions	Opioid receptor mu agonist
Other Actions	Analgesic
Technologies	Oral formulation;Capsule formulation;Small molecule therapeutic
Last Change Date	12-Nov-2014

TRV-734 DEVELOPMENT PROFILE

SUMMARY

Trevena is developing TRV-734, a G-protein biased mu opioid receptor ligand as a follow-on program to the TRV-130, for the potential oral treatment of pain . In February 2014, a phase I trial was initiated for moderate to severe acute or chronic pain ; in June 2014, positive results were reported. In August 2014, phase II development was expected to begin. In March 2012, the company was seeking to outlicense the program after phase I,.

Trevena was previously investigating TRV-001 and TRV-002 for the potential oral treatment of pain. However, since November 2011, no development had been reported.

TRV-734 DEVELOPMENT STATUS

CURRENT DEVELOPMENT STATUS

Company	Indication	Country	Development Status	Date
Trevena Inc	Pain	US	Phase 1 Clinical	05-Feb-2014

[Return to Table of Contents](#)

TRV-734 DRUG NAMES

Names	Type
TRV-002	Research Code
TRV-734	Research Code
TRV-001	Research Code
mu opioid receptor ligands (oral, pain), Trevena	
TRV-130 follow-on compound, Trevena	

TRV-734 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	0	0	1	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	0	1	2	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

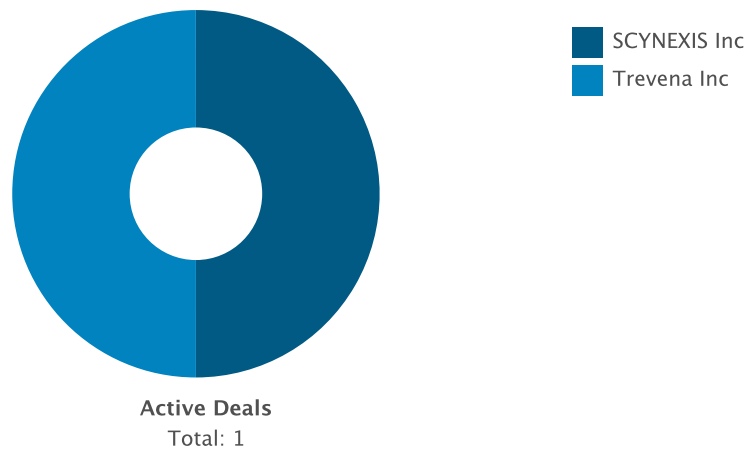
[Return to Table of Contents](#)



TRV-734 DEALS AND PATENTS

DEALS

Deals by Parent Company Chart

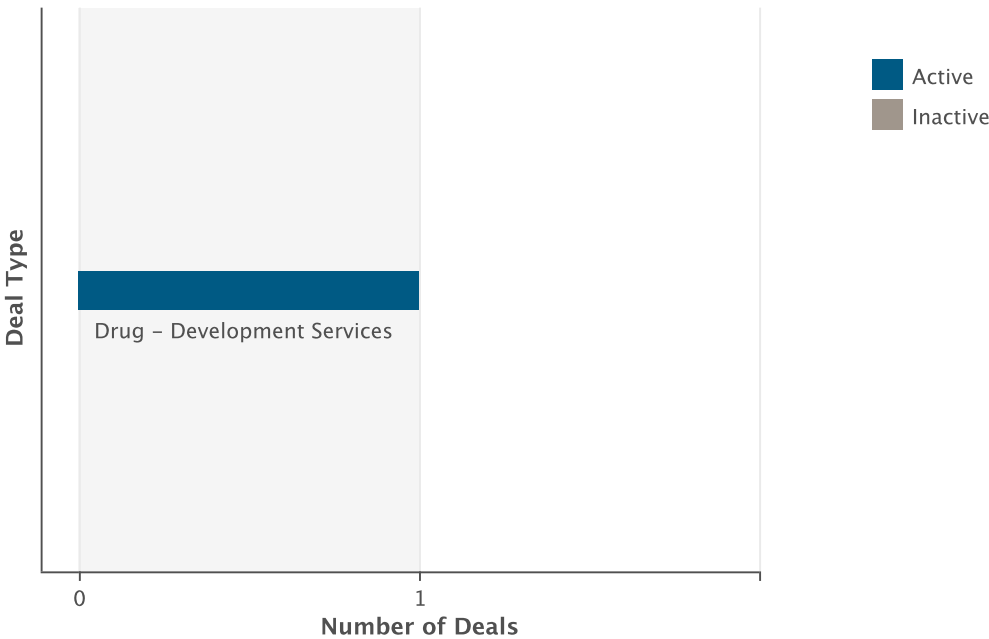


Deals by Parent Company Table

Company Name	Principal		Partner		Total
	Active	Inactive	Active	Inactive	
Trevena Inc	0	0	1	0	1
SCYNEXIS Inc	1	0	0	0	1

[Return to Table of Contents](#)

Deals by Type Chart



Deals by Type Table

Deal Type	Active	Inactive	Total
Drug - Development Services	1	0	1

[Return to Table of Contents](#)

delta opioid receptor ligands (oral, pain/ depression/ Parkinson's disease/overactive bladder), Trevena

delta opioid receptor ligands (oral, pain/ depression/ Parkinson's disease/overactive bladder), Trevena SNAPSHOT

Drug Name	delta opioid receptor ligands (oral, pain/ depression/ Parkinson's disease/overactive bladder), Trevena
Key Synonyms	
Originator Company	Trevena Inc
Active Companies	Trevena Inc
Inactive Companies	
Highest Status	Discovery
Active Indications	Pain;Migraine;Depression;Parkinsons disease;Overactive bladder
Target-based Actions	Opioid receptor delta agonist
Other Actions	Antiparkinsonian;Antidepressant;Analgesic
Technologies	Oral formulation;Small molecule therapeutic
Last Change Date	10-Jul-2014

delta opioid receptor ligands (oral, pain/ depression/ Parkinson's disease/overactive bladder), Trevena DEVELOPMENT PROFILE

SUMMARY

Trevena is investigating a program of delta opioid receptor-biased ligands for the potential oral treatment of major depressive disorder (MDD), pain including neuropathic pain, overactive bladder and other CNS indications such as Parkinson's disease and migraine,,. By December 2011, the program was in the lead-optimization stage ; in January 2014, this was still the case. In March 2013, the company was seeking to outlicense the program.

delta opioid receptor ligands (oral, pain/ depression/ Parkinson's disease/overactive bladder), Trevena DEVELOPMENT STATUS

CURRENT DEVELOPMENT STATUS

Company	Indication	Country	Development Status	Date
Trevena Inc	Depression	US	Discovery	20-Dec-2011
Trevena Inc	Migraine	US	Discovery	08-Jul-2014
Trevena Inc	Overactive bladder	US	Discovery	09-Mar-2012
Trevena Inc	Pain	US	Discovery	20-Dec-2011
Trevena Inc	Parkinsons disease	US	Discovery	20-Dec-2011

[Return to Table of Contents](#)



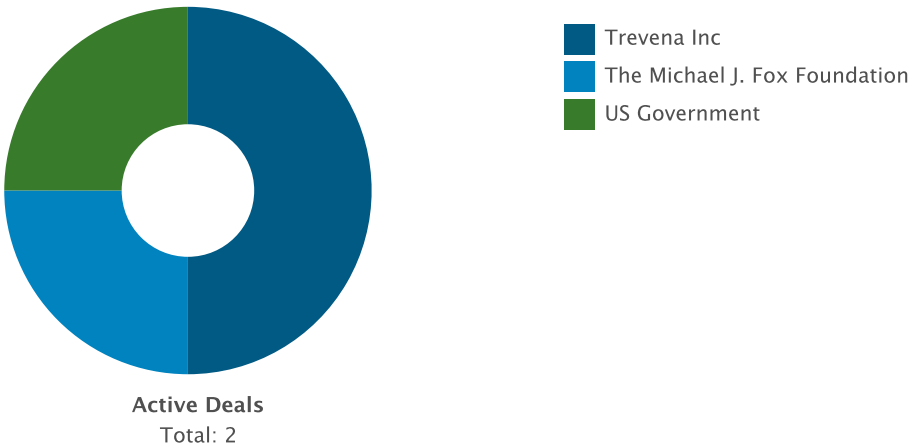
delta opioid receptor ligands (oral, pain/ depression/ Parkinson's disease/overactive bladder), Trevena DRUG NAMES

Names	Type
delta opioid receptor ligands (oral, pain/ depression/ Parkinson's disease/overactive bladder), Trevena	
delta opioid receptor ligands (pain/ depression/ Parkinson's disease/overactive bladder), Trevena	

delta opioid receptor ligands (oral, pain/ depression/ Parkinson's disease/overactive bladder), Trevena DEALS AND PATENTS

DEALS

Deals by Parent Company Chart

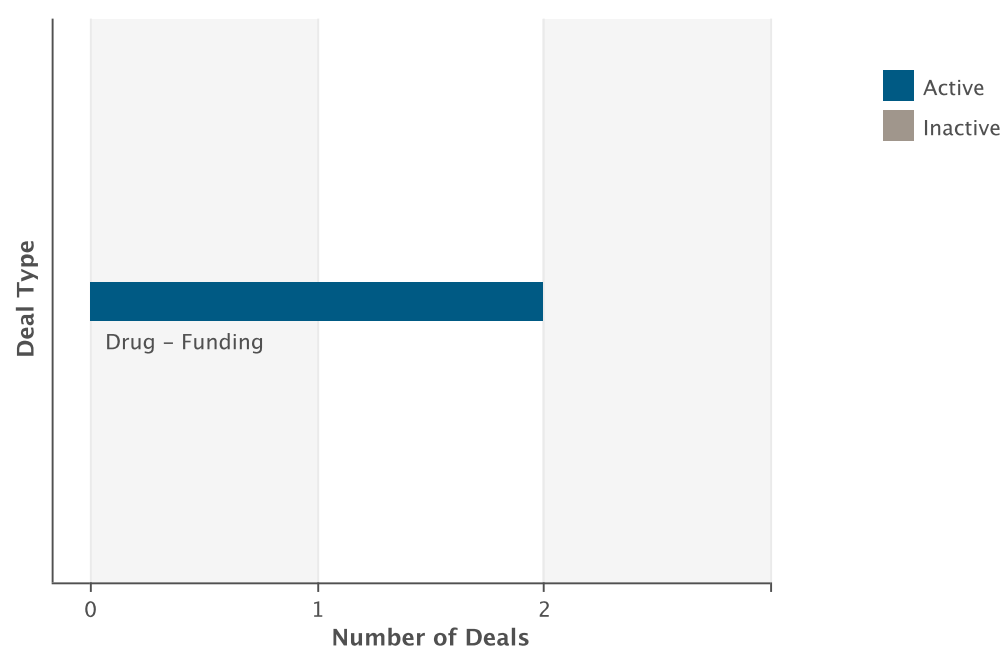


Deals by Parent Company Table

Company Name	Principal		Partner		Total
	Active	Inactive	Active	Inactive	
Trevena Inc	2	0	0	0	2
The Michael J. Fox Foundation	0	0	1	0	1
US Government	0	0	1	0	1

[Return to Table of Contents](#)

Deals by Type Chart



Deals by Type Table

Deal Type	Active	Inactive	Total
Drug - Funding	2	0	2

[Return to Table of Contents](#)

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[Return to Table of Contents](#)

