

## Trevena Inc

### COMPANY AND PIPELINE OVERVIEW REPORT

Coverage of the company and a summary of the drug pipeline portfolio.

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#### THOMSON REUTERS

3 Times Square  
New York, New York 10036  
United States

Tel: +1 646 223 4000

[thomsonreuters.com](http://thomsonreuters.com)

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i.e. where the development status for the drug(s) is one of the following: No Development Reported, Discontinued, or Withdrawn.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

## COMPANY OVERVIEW

Company Name	Trevena Inc
Parent Company Name	Trevena Inc
Website	<a href="http://www.trevenainc.com/">http://www.trevenainc.com/</a>
Country	US
Number of Drugs in Active Development	7
Number of Inactive Drugs	2
Number of Patents as Owner	3
Number of Patents as Third Party	0
Number of Deals	6
Key Indications	Pain, Cardiac failure, Inflammatory disease, Major depressive disorder, Neuropathic pain, Overactive bladder, Parkinsons disease, Angina, Aortic aneurysm, Congestive heart failure, Hypertension, Ileus, Intestine disease, Myocardial disease, Myocardial infarction, Myocarditis, Pre-eclampsia, Respiratory depression, Retinopathy, Viral
Key Target-based Actions	Opioid receptor mu agonist, Beta-arrestin inhibitor, Opioid receptor delta agonist, Opioid receptor kappa agonist, Unspecified GPCR modulator, Angiotensin II AT-1 receptor modulator, Beta-arrestin stimulator, Opioid receptor delta modulator, Opioid receptor kappa modulator, Opioid receptor modulator, Opioid receptor mu modulator
Key Technologies	Small molecule therapeutic, Intravenous formulation, Oral 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 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.

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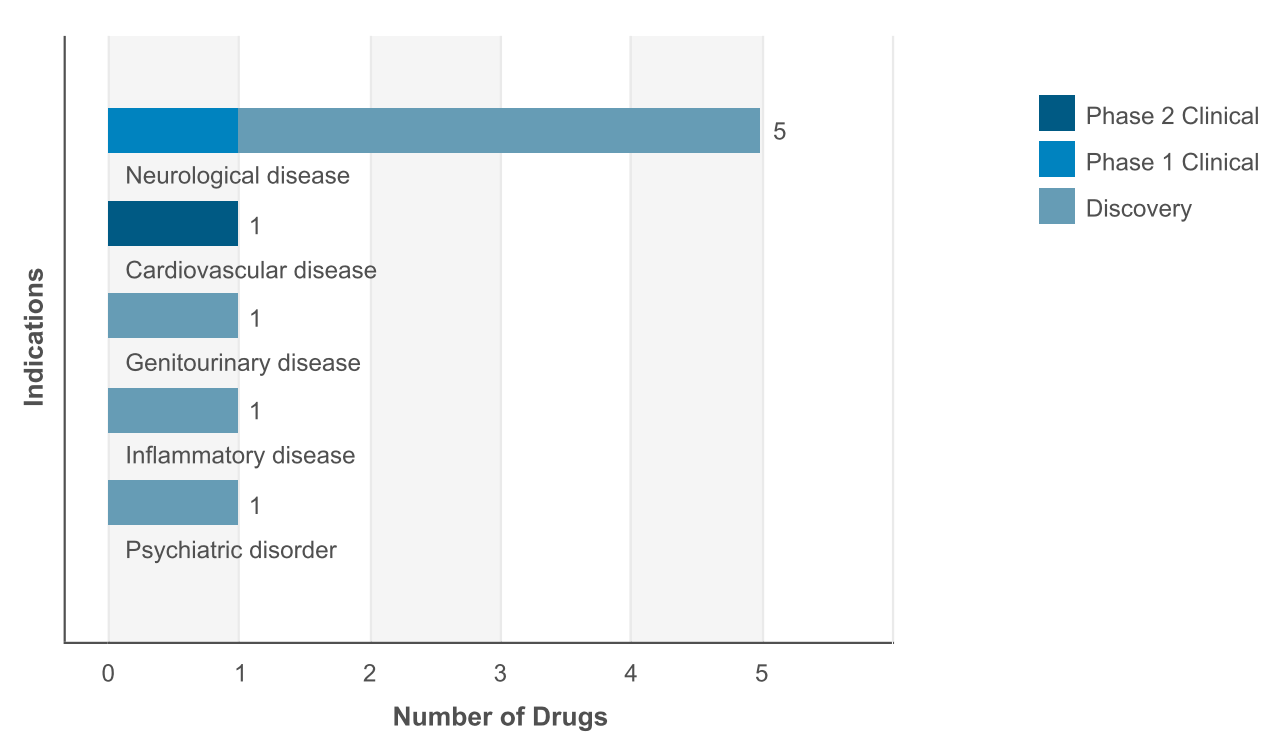


PRODUCT PORTFOLIO SUMMARY

DRUGS

Drugs by Indication

Active Drugs by Indication Chart



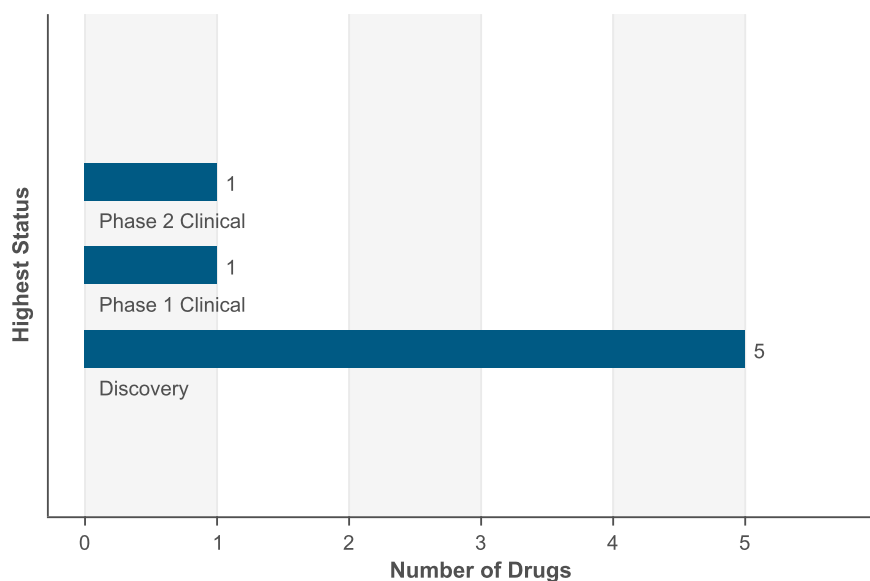
Drugs by Indication Table

Indication	Active	Inactive	Total
Neurological disease	5	1	6
Psychiatric disorder	1	0	1
Nutritional disorder	0	1	1
Cardiovascular disease	1	0	1
Inflammatory disease	1	0	1
Genitourinary disease	1	0	1

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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	1
Phase 1 Clinical	1
Discovery	5
No Development Reported	2

## 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 Services	0	0	1	0	1
Technology - Target Validation	0	0	1	0	1

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## CLINICAL TRIALS

### Trials by Condition Studied

Condition Studied	Ongoing	All
Cardiovascular disease	0	3

### Trials by Phase

Phase	Ongoing	All
Phase 2	0	1
Phase 1	0	3

### 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
Ocular disease	1	0	1
Neurological disease	2	0	2
Cardiovascular disease	1	0	1
Gastrointestinal disease	1	0	1
Respiratory disease	1	0	1
Infectious disease	1	0	1
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.

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## PRODUCT PORTFOLIO DRUGS

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

### TRV-027

<b>Drug Name</b>	TRV-027
<b>Key Synonyms</b>	
<b>Originator Company</b>	Ligand Pharmaceuticals Inc
<b>Active Companies</b>	Trevena Inc
<b>Inactive Companies</b>	Ligand Pharmaceuticals Inc
<b>Highest Status</b>	Phase 2 Clinical
<b>Active Indications</b>	Cardiac failure
<b>Target-based Actions</b>	Angiotensin II AT-1 receptor antagonist, Beta-arrestin stimulator
<b>Other Actions</b>	Cardioprotectant
<b>Technologies</b>	Intravenous formulation, Infusion, Small molecule therapeutic
<b>Last Change Date</b>	09-Oct-2012

### TRV-130

<b>Drug Name</b>	TRV-130
<b>Key Synonyms</b>	
<b>Originator Company</b>	Trevena Inc
<b>Active Companies</b>	Trevena Inc
<b>Inactive Companies</b>	
<b>Highest Status</b>	Phase 1 Clinical
<b>Active Indications</b>	Pain
<b>Target-based Actions</b>	Opioid receptor mu agonist, Beta-arrestin inhibitor
<b>Other Actions</b>	Analgesic
<b>Technologies</b>	Intravenous formulation, Small molecule therapeutic
<b>Last Change Date</b>	15-Nov-2012

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### mu opioid receptor ligands (iv, pain), Trevena

<b>Drug Name</b>	mu opioid receptor ligands (iv, pain), Trevena
<b>Key Synonyms</b>	
<b>Originator Company</b>	Trevena Inc
<b>Active Companies</b>	Trevena Inc
<b>Inactive Companies</b>	
<b>Highest Status</b>	Discovery
<b>Active Indications</b>	Pain
<b>Target-based Actions</b>	Opioid receptor mu agonist
<b>Other Actions</b>	Analgesic
<b>Technologies</b>	Intravenous formulation, Small molecule therapeutic
<b>Last Change Date</b>	16-May-2012

### kappa opioid receptor ligands (neuropathic/acute/chronic pain), Trevena

<b>Drug Name</b>	kappa opioid receptor ligands (neuropathic/acute/chronic pain), Trevena
<b>Key Synonyms</b>	
<b>Originator Company</b>	Trevena Inc
<b>Active Companies</b>	Trevena Inc
<b>Inactive Companies</b>	
<b>Highest Status</b>	Discovery
<b>Active Indications</b>	Neuropathic pain, Pain
<b>Target-based Actions</b>	Opioid receptor kappa agonist
<b>Other Actions</b>	Analgesic
<b>Technologies</b>	Small molecule therapeutic
<b>Last Change Date</b>	16-May-2012

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### antiinflammatory therapeutics, Trevena

<b>Drug Name</b>	antiinflammatory therapeutics, Trevena
<b>Key Synonyms</b>	
<b>Originator Company</b>	Trevena Inc
<b>Active Companies</b>	Trevena Inc
<b>Inactive Companies</b>	
<b>Highest Status</b>	Discovery
<b>Active Indications</b>	Inflammatory disease
<b>Target-based Actions</b>	
<b>Other Actions</b>	Unspecified drug target, Anti-inflammatory
<b>Technologies</b>	Small molecule therapeutic
<b>Last Change Date</b>	12-May-2012

### mu opioid receptor ligands (oral, pain), Trevena

<b>Drug Name</b>	mu opioid receptor ligands (oral, pain), Trevena
<b>Key Synonyms</b>	
<b>Originator Company</b>	Trevena Inc
<b>Active Companies</b>	Trevena Inc
<b>Inactive Companies</b>	
<b>Highest Status</b>	Discovery
<b>Active Indications</b>	Pain
<b>Target-based Actions</b>	Opioid receptor mu agonist
<b>Other Actions</b>	Analgesic
<b>Technologies</b>	Oral formulation, Small molecule therapeutic
<b>Last Change Date</b>	16-May-2012

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

<b>Drug Name</b>	delta opioid receptor ligands (pain/ depression/ Parkinson's disease/overactive bladder), Trevena
<b>Key Synonyms</b>	
<b>Originator Company</b>	Trevena Inc
<b>Active Companies</b>	Trevena Inc
<b>Inactive Companies</b>	
<b>Highest Status</b>	Discovery
<b>Active Indications</b>	Pain, Major depressive disorder, Parkinsons disease, Overactive bladder
<b>Target-based Actions</b>	Opioid receptor delta agonist
<b>Other Actions</b>	Antiparkinsonian, Analgesic, Antidepressant
<b>Technologies</b>	Small molecule therapeutic
<b>Last Change Date</b>	16-May-2012

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