

Adamas Pharmaceuticals Inc

CORTELLIS COMPANY DETAILED PIPELINE REPORT

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

Publication Date: 19-Jan-2015

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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 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i.e. where the development status for the drug(s) is one of the following: No Development Reported, Discontinued, or Withdrawn.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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Phase 3 Clinical	18
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Adamas Pharmaceuticals Inc

COMPANY OVERVIEW

Company Name	Adamas Pharmaceuticals Inc
Parent Company Name	Adamas Pharmaceuticals Inc
Website	http://adamaspharma.com/
Country	US
Number of Drugs in Active Development	3
Number of Inactive Drugs	8
Number of Patents as Owner	18
Number of Patents as Third Party	2
Number of Deals	5
Key Indications	Fatigue, Movement disorder, Alzheimers disease, Parkinsons disease, Traumatic brain injury, Unidentified indication, Brain injury, Sleep disorder, Glaucoma, HIV associated dementia, Hepatitis C virus infection, Neurological disease, Neuropathic pain, Respiratory syncytial virus infection
Key Target-based Actions	NMDA receptor antagonist, Inosine monophosphate dehydrogenase inhibitor, Influenza matrix protein 2 inhibitor, Acetylcholinesterase inhibitor, Exoalpha sialidase inhibitor, Folate antagonist, Nitric oxide synthase inhibitor
Key Technologies	Small molecule therapeutic, Drug combination, Oral formulation, Capsule formulation, Sustained release formulation, Oral sustained release formulation, Intravenous formulation, Systemic formulation unspecified, Controlled release formulation, Formulation preservation, Quick release formulation, Tablet formulation

COMPANY PROFILE

SUMMARY

Adamas Pharmaceuticals (formerly NeuroMolecular Pharmaceuticals Inc), headquartered in Emeryville, CA, was founded in 2004 and is focused on the development of controlled release, novel small molecule therapeutics called advantaged therapeutics for neurological like Alzheimer's diseases and dementia and infectious diseases like influenza.

FINANCIAL

In April 2014, Adamas priced its IPO of 3 million common stock shares at \$16 each. The underwriters were granted a 30-day overallotment option to purchase up to an additional 450,000 common stock shares. At that time, shares were expected to begin trading on the NASDAQ Global Market under the ticker symbol 'ADMS' on April 10, 2014 and the offering was expected to close on April 15, 2014; later that month, the offering was closed and net proceeds from the offering was estimated to be approximately \$41.5 million; later that month, the company issued 81,371 additional shares to the underwriters pursuant to the over-allotment option and raised net proceeds of approximately \$42.7 million. And the shares had begun trading on NASDAQ.

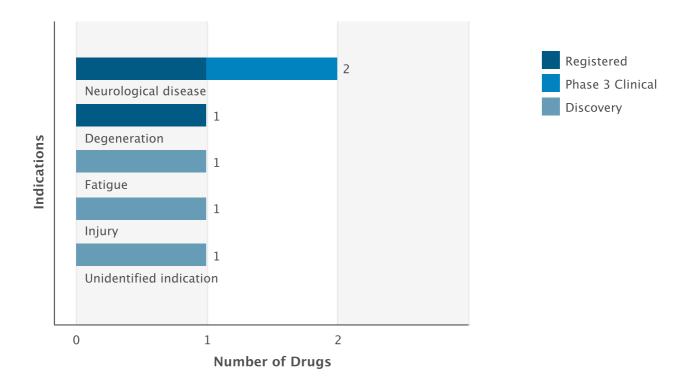
In August 2009, the company raised \$40 million from a series D financing round.

PRODUCT PORTFOLIO SUMMARY

DRUGS

Drugs by Indication

Active Drugs by Indication Chart

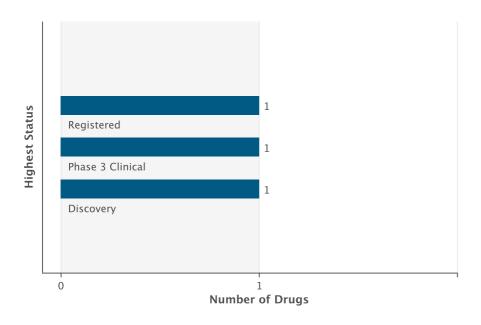


Drugs by Indication Table

Indication	Active	Inactive	Total
Neurological disease	2	4	6
Infectious disease	0	3	3
Respiratory disease	0	2	2
Degeneration	1	1	2
Unidentified indication	1	1	2
Injury	1	0	1
Fatigue	1	0	1

Drugs by Highest Status

Active Drugs by Highest Status Chart



Drugs by Highest Status Table

Development Status	Number of Drugs
Registered	1
Phase 3 Clinical	1
Discovery	1
Discontinued	1
No Development Reported	7

DEALS

Deal Type	Prir	Principal		Partner	
	Active	Inactive	Active	Inactive	
Drug - Funding	2	0	0	0	2
Drug - CRADA	1	0	0	0	1
Drug - Development/Commercialization License	1	0	0	0	1
Drug - Manufacturing/Supply	0	0	1	0	1



CLINICAL TRIALS

Trials by Condition Studied

Condition Studied	Ongoing	All
Neurological disease	3	5
Infectious disease	0	2
Respiratory disease	0	2

Trials by Phase

Phase	Ongoing	All
Phase 3	3	4
Phase 2	0	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
Gastrointestinal disease	2	0	2
Growth disorder	1	0	1
Degeneration	5	0	5
Immune disorder	6	0	6
Psychiatric disorder	5	0	5
Musculoskeletal disease	1	0	1
Ocular disease	2	0	2
Genetic disorder	1	0	1
Metabolic disorder	1	0	1



Neurological disease	17	0	17
Respiratory disease	5	0	5
Infectious disease	5	0	5
Injury	2	0	2
Toxicity and intoxication	2	0	2
Inflammatory disease	2	0	2
Fatigue	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.

PRODUCT PORTFOLIO DRUG PIPELINE DETAIL

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

memantine hydrochloride ER + donepezil hydrochloride (extended release formulation, dementia), Adamas/Actavis

memantine hydrochloride ER + donepezil hydrochloride (extended release formulation, dementia), Adamas/Actavis SNAPSHOT

Drug Name	memantine hydrochloride ER + donepezil hydrochloride (extended release formulation, dementia), Adamas/Actavis
Key Synonyms	Namzaric;Arimenda
Originator Company	Adamas Pharmaceuticals Inc
Active Companies	Adamas Pharmaceuticals Inc;Actavis plc
Inactive Companies	Forest Laboratories Inc
Highest Status	Registered
Active Indications	Alzheimers disease
Target-based Actions	Acetylcholinesterase inhibitor;NMDA receptor antagonist
Other Actions	Neuroprotectant;Nootropic agent
Technologies	Oral formulation;Capsule formulation;Small molecule therapeutic;Oral sustained release formulation;Drug combination
Last Change Date	24-Dec-2014

memantine hydrochloride ER + donepezil hydrochloride (extended release formulation, dementia), Adamas/Actavis DEVELOPMENT PROFILE

SUMMARY

Adamas Pharmaceuticals, in collaboration with US licensee Actavis following its acquisition of Forest Laboratories, has developed a once-daily, fixed-dose combination of an extended-release form of memantine hydrochloride ER (Namenda XR) and donepezil hydrochloride, as Namzaric (MDX-8704). In the US, the drug is indicated for the treatment of moderate to severe dementia of the Alzheimer's type in patients stabilized on memantine hydrochloride and donepezil hydrochloride .

In December 2014, the drug was approved by the FDA for the treatment of moderate to severe dementia of the Alzheimer's type; at that time, Actavis expected to launch the product in the US in 2Q15 .

Adamas Pharmaceuticals was previously developing the drug combination as ADS-8704 (Arimenda) in ex-US territories for the potential treatment of moderate-to-severe dementia of the Alzheimer's type,. However, in October 2014, ADS-8704 was no longer listed on the company's pipeline.

memantine hydrochloride ER + donepezil hydrochloride (extended release formulation, dementia), Adamas/Actavis DEVELOPMENT STATUS

CURRENT DEVELOPMENT STATUS

Company	Indication	Country	Development Status	Date



Company	Indication	Country	Development Status	Date
Actavis plc	Alzheimers disease	US	Registered	24-Dec-2014
Adamas Pharmaceuticals Inc	Alzheimers disease	US	Registered	24-Dec-2014
Adamas Pharmaceuticals Inc	Alzheimers disease	EU	No Development Reported	10-Oct-2014

memantine hydrochloride ER + donepezil hydrochloride (extended release formulation, dementia), Adamas/Actavis CHEMICAL STRUCTURES

CAS Registry Number:	Confidence Level:
	1
H-CI	H ////////////////////////////////////
Name	Туре
Acrescent	Trade Name
Arimenda	Trade Name
Balaxur	Trade Name
ADS-8704	Research Code
MDX-8704	Research Code
memantine hydrochloride + donepezil hydrochloride	

CAS Registry Number:	Confidence Level:
120014-06-4	1
Name	Туре
donepezil	BAN; INN



Name	Туре
NAL-8812	Research Code
NAL-8817	Research Code

CAS Registry Number:	Confidence Level:
19982-08-2	1
Him	NH ₂
Name	Туре
memantine	BANN; INN
D-145	Research Code
memantine ER	

memantine hydrochloride ER + donepezil hydrochloride (extended release formulation, dementia), Adamas/Actavis DRUG NAMES

Names	Туре
memantine hydrochloride + donepezil hydrochloride	
Namzaric	Trade Name
ADS-8704	Research Code
Arimenda	Trade Name
Namenda XR + donepezil (extended release formulation, dementia), Adamas/ Actavis	
memantine ER + donepezil (extended release formulation, dementia), Adamas/Forest	
memantine hydrochloride ER + donepezil hydrochloride (extended release formulation, dementia), Adamas/Actavis	
MDX-8704	Research Code
Namenda XR + donepezil (extended release formulation, dementia), Adamas/ Forest	



memantine hydrochloride ER + donepezil hydrochloride (extended release formulation, dementia), Adamas/Actavis SALES AND FORECASTS

COMMENTARY

CONSENSUS SALES INFORMATION

No Consensus forecast data for Actavis, following its acquisition of Forest Laboratories, and Adamas Pharmaceuticals are currently available.

REGIONAL DEVELOPMENT AND MARKETING RIGHTS

In November 2012, Forest and Adamas entered into an agreement for the development and commercialization of Arimenda to treat moderate to severe dementia of the Alzheimer's type in the US. Forest and Adamas would collaborate on the drug's development, and Forest would have exclusive US commercialization rights [1340659]. In July 2014, Actavis acquired Forest [1574106].

memantine hydrochloride ER + donepezil hydrochloride (extended release formulation, dementia), Adamas/Actavis CLINICAL TRIALS

Trials by Phase and Condition Studied

	ise 4 nical		se 3 nical		se 2 nical		se 1 nical		ase ecified	То	tal
On- going	All	On- going	All	On- going	All	On- going	All	On- going	All	On- going	All
Dementia											
0	0	0	1	0	0	0	0	0	0	0	1

Total Trials by Phase and Status

	se 4 nical		ise 3 nical		se 2 iical		se 1 nical		ase ecified	То	tal
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	1	0	0	0	0	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 Clinica

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)

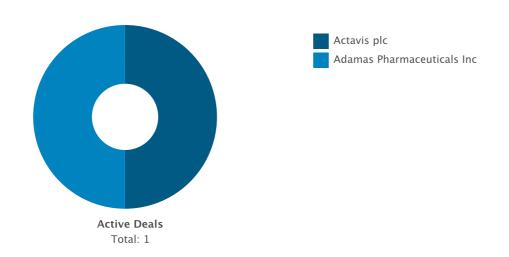
Phase 1 Clinical

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

memantine hydrochloride ER + donepezil hydrochloride (extended release formulation, dementia), Adamas/Actavis DEALS AND PATENTS

DEALS

Deals by Parent Company Chart



Deals by Parent Company Table

Company Name	Principal Active Inactive		Partner e Active Inactive		Total
Adamas Pharmaceuticals Inc	1	0	0	0	1
Actavis plc	0	0	1	0	1

Deals by Type Chart



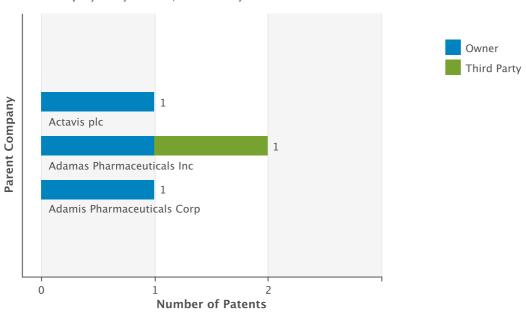
Deals by Type Table

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

PATENTS

Patents by Parent Company Chart

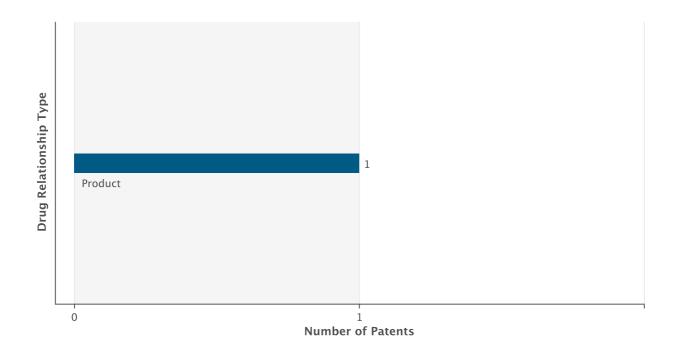
Chart displayed by Owner/Third Party



Patents by Parent Company Table

Company Name	As Owner	As Third Party	Total
Adamas Pharmaceuticals Inc	1	1	1
Actavis plc	1	0	1
Adamis Pharmaceuticals Corp	1	0	1

Patents by Drug Relationship Type Chart



Patents by Drug Relationship Type Table

Drug Relationship	Total
Product	1

amantadine (extended release, Parkinson's disease/traumatic brain injury/fatigue), Adamas

amantadine (extended release, Parkinson's disease/traumatic brain injury/fatigue), Adamas SNAPSHOT

Drug Name	amantadine (extended release, Parkinson's disease/traumatic brain injury/fatigue), Adamas
Key Synonyms	Nurelin;amantadine
Originator Company	Adamas Pharmaceuticals Inc
Active Companies	Adamas Pharmaceuticals Inc
Inactive Companies	
Highest Status	Phase 3 Clinical
Active Indications	Movement disorder;Fatigue;Traumatic brain injury
Target-based Actions	
Other Actions	Neuroprotectant;Nootropic agent;Antiparkinsonian
Technologies	Oral formulation;Capsule formulation;Small molecule therapeutic;Sustained release formulation
Last Change Date	12-Jan-2015

amantadine (extended release, Parkinson's disease/traumatic brain injury/fatigue), Adamas DEVELOPMENT PROFILE

SUMMARY

Adamas Pharmaceuticals is developing ADS-5102 (Nurelin), a fixed-dose, once-nightly, extended-release capsule formulation of amantadine for the potential treatment of levodopa-induced dyskinesia (LID) in patients with Parkinson's disease (PD), and the company is also investigating the drug for the potential treatment of fatigue associated with PD and multiple sclerosis (MS), and traumatic brain injury (TBI) "., In July 2011, a phase II/III trial was initiated for LID in PD patients; in June 2013, positive data were reported; later that month, full data were presented; in October 2014, another phase III trial was initiated in the US and Europe and at that time, the company expected to complete enrollment in all studies in 2015. In July 2012, the drug was listed as being in pre-IND development for TBI and MS fatigue. In May 2014, the drug was expected to enter phase II/III development for TBI. In August 2014, the company expected to make a NDA filing in the first half of 2016 if the phase III registration trial is successful. In January 2015, the company planned to initiate clinical development for hypokinetic movement disorders, hyperkinetic movement disorders or neuropsychiatric disorders. In March 2011, the company was seeking for commercialization rights in the US and other ex-US markets.

amantadine (extended release, Parkinson's disease/traumatic brain injury/fatigue), Adamas DEVELOPMENT STATUS

CURRENT DEVELOPMENT STATUS

Company	Indication	Country	Development Status	Date
Adamas Pharmaceuticals Inc	Movement disorder	Europe	Phase 3 Clinical	28-Oct-2014
Adamas Pharmaceuticals Inc	Movement disorder	US	Phase 3 Clinical	18-Jul-2011



Company	Indication	Country	Development Status	Date
Adamas Pharmaceuticals Inc	Fatigue	US	Discovery	04-Jun-2012
Adamas Pharmaceuticals Inc	Traumatic brain injury	US	Discovery	05-Jul-2012

amantadine (extended release, Parkinson's disease/traumatic brain injury/fatigue), Adamas CHEMICAL STRUCTURES

CAS Registry Number:	Confidence Level:
768-94-5	2
H ////	NH ₂
Н	
Name	Туре
amantadine	INN
ADS-5102	

CAS Registry Number:	Confidence Level:
	2
H _{IIII}	н — сі '''' н
Name	Туре
amantadine hydrochloride	USAN
Nurelin	Trade Name
ADS-5101	Research Code

amantadine (extended release, Parkinson's disease/traumatic brain injury/fatigue), Adamas DRUG NAMES

Names	Туре
Nurelin	Trade Name
ADS-5102	
amantadine	INN
amantadine (extended release, Parkinson's disease/traumatic brain injury/fatigue), Adamas	
amantadine (extended release formulation, Parkinsons disease/movement disorder), Adamas	

amantadine (extended release, Parkinson's disease/traumatic brain injury/fatigue), Adamas CLINICAL TRIALS

Trials by Phase and Condition Studied

	se 4 nical		se 3 iical	Pha Clin	se 2 lical	Pha Clir	se 1 nical		ase ecified	То	tal
On- going	All	On- going	All	On- going	All	On- going	All	On- going	All	On- going	All
Moveme	Movement disorder										
0	0	3	3	0	1	0	0	0	0	3	4
Parkinso	ns disease	;									
0	0	1	1	0	1	0	0	0	0	1	2

Total Trials by Phase and Status

	se 4 nical		ise 3 nical		se 2 nical		se 1 nical		ase ecified	To	otal
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	3	3	0	1	0	0	0	0	3	4

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

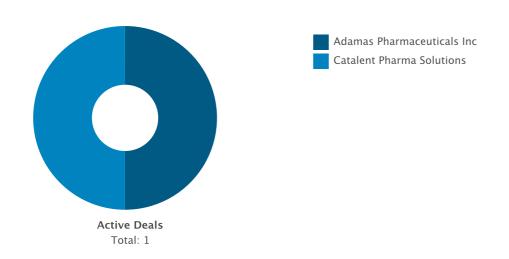
Includes Phase 1, Phase 1, Phase 1, Phase 1/2 (where enrolment count is under 100 or not specified), Phase 0



amantadine (extended release, Parkinson's disease/traumatic brain injury/fatigue), Adamas DEALS AND PATENTS

DEALS

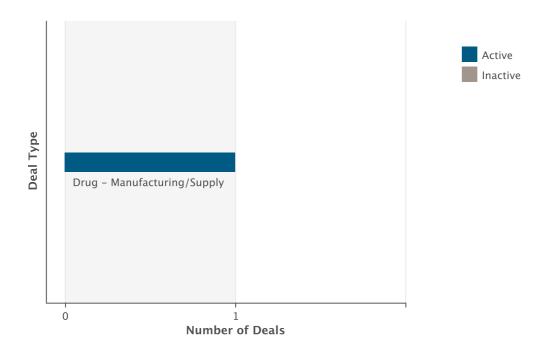
Deals by Parent Company Chart



Deals by Parent Company Table

Company Name		cipal Inactive		tner Inactive	Total
Catalent Pharma Solutions	1	0	0	0	1
Adamas Pharmaceuticals Inc	0	0	1	0	1

Deals by Type Chart



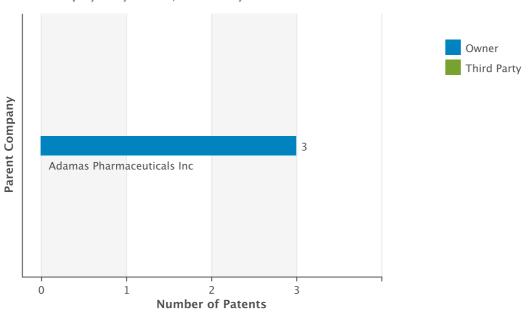
Deals by Type Table

Deal Type	Active	Inactive	Total
Drug - Manufacturing/Supply	1	0	1

PATENTS

Patents by Parent Company Chart

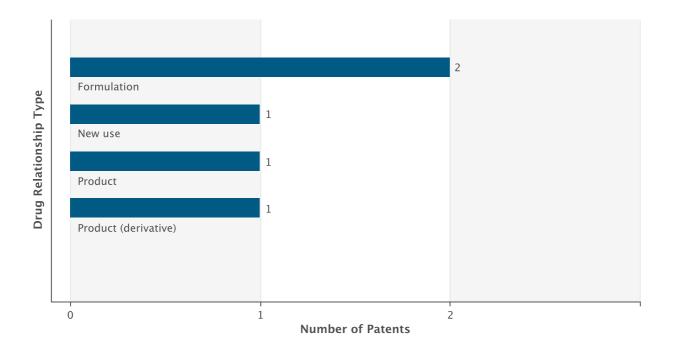
Chart displayed by Owner/Third Party



Patents by Parent Company Table

Company Name	As Owner	As Third Party	Total
Adamas Pharmaceuticals Inc	3	0	3

Patents by Drug Relationship Type Chart





Patents by Drug Relationship Type Table

Drug Relationship	Total
Formulation	2
Product (derivative)	1
New use	1
Product	1



ADS-9000

ADS-9000 SNAPSHOT

Drug Name	ADS-9000
Key Synonyms	
Originator Company	Adamas Pharmaceuticals Inc
Active Companies	Adamas Pharmaceuticals Inc
Inactive Companies	
Highest Status	Discovery
Active Indications	Unidentified indication
Target-based Actions	
Other Actions	Unspecified drug target
Technologies	Small molecule therapeutic
Last Change Date	15-Dec-2014

ADS-9000 DEVELOPMENT PROFILE

SUMMARY

Adamas is investigating ADS-9000 series, as a single agent or combination therapy, for the potential treatment of unspecified indication. In December 2014, the program was in research and at that time, the company was planning to conduct phase II trials.

ADS-9000 DEVELOPMENT STATUS

CURRENT DEVELOPMENT STATUS

Company	Indication	Country	Development Status	Date
Adamas Pharmaceuticals Inc	Unidentified indication	US	Discovery	10-Dec-2014

ADS-9000 DRUG NAMES

Names	Туре		
ADS-9000	Research Code		

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