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Karyopharm Therapeutics 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

Thomson Reuters provides the knowledge, tools, and expertise to help support drug discovery and development activities, IP portfolio optimization, identification of licensing and partnering opportunities, delivery of successful regulatory submissions, and the ability to keep current with the rapidly-changing pharmaceutical and chemical markets, supporting informed, early decisions.

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i.e. where the development status for the drug(s) is one of the following: No Development Reported, Discontinued, or Withdrawn.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

COMPANY OVERVIEW

Company Name	Karyopharm Therapeutics Inc
Parent Company Name	Karyopharm Therapeutics Inc
Website	http://karyopharm.com/
Country	US
Number of Drugs in Active Development	7
Number of Inactive Drugs	3
Number of Patents as Owner	9
Number of Patents as Third Party	0
Number of Deals	9
Key Indications	Cancer,Inflammatory disease,Systemic lupus erythematosus,Viral infection,Autoimmune disease,Acute myelogenous leukemia,Endometrioid carcinoma,Female genital tract tumor,Gastrointestinal tumor,Glioblastoma,Hematological neoplasm,Hormone refractory prostate cancer,Lung tumor,Multiple myeloma,Multiple sclerosis,Myelodysplastic syndrome,Neuroendocrine tumor,Ovary tumor,Pancreas tumor,Rectal tumor,Sarcoma,Solid tumor,Squamous cell carcinoma,Uterine cervix tumor
Key Target-based Actions	Exportin 1 inhibitor,Cyclin-dependent kinase inhibitor 1B stimulator,PAK-4 protein kinase inhibitor,Abl tyrosine kinase inhibitor,Bcr protein inhibitor,Bromodomain containing protein inhibitor,Nuclear factor kappa B inhibitor,Nuclear pore complex protein modulator,XPO1 gene modulator,p53 tumor suppressor protein stimulator
Key Technologies	Small molecule therapeutic,Oral formulation,Dermatological formulation

COMPANY PROFILE

SUMMARY

Karyopharm, headquartered in Newton, MA, is a clinical-stage pharmaceutical company involved in the discovery and development of novel first-in-class drugs directed against nuclear transport targets for the treatment of cancer and other major diseases.

In October 2014, Karyopharm established its wholly-owned European subsidiary, Karyopharm Europe GmbH, headquartered in Munich, Germany.

FINANCIAL

In June 2014, Karyopharm commenced an underwritten public offering of 2,200,000 shares of its common stock, including 200,000 shares to be offered by existing stockholders. At that time, the company intended to grant underwriters a 30-day option to purchase up to an additional 330,000 shares of common stock. Later that month, the company priced the underwritten public offering of 2,647,247 common stock shares at $42.50 per share. The underwriters were granted a 30-day option to buy upto an additional 397,087 common stock shares. At that time, the offering was expected to close on or about July 02, 2014. Again later that month, the underwriters have exercised their option to purchase the additional shares and the company expected to raise approximately $120.9 million through the underwritten public offering after the option exercise.

In December 2013, Karyopharm was added to the Russell 3000 and Russell 2000 Indexes as part of Russell Investments.

In October 2013, the company planned an IPO of its common stock; at that time a Form S-1 registration statement had been filed with the US Securities and Exchange Commission; in November 2013, the IPO of of 6.8 million shares were priced at $16 per share. The underwriters were granted a 30-day option to purchase up to an additional 1.02 million shares of common stock. The shares were to be traded on the NASDAQ Global Select Market under the ticker symbol 'KPTI'. At that time, the offering was expected to close on November 12, 2013. In December 2013, the underwriters fully exercised their option to purchase an additional 1.02 million shares of common stock at the public offering price of $16

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each. Proceeds to Karyopharm from the exercise of the option were approximately $15.2 million, including which gross proceeds to Karyopharm from the initial public offering were $125.1 million.

In May 2013, Karyopharm raised $48.2 million from a series B financing round. In July 2013, the company raised $19 million in a series B1 financing.

In November 2010, Karyopharm raised $20 million from a series A financing round. In November 2011, Karyopharm raised $10 million from a series A2 financing round and by that time, the company had raised $32 million from both series A and series A2 financing rounds.

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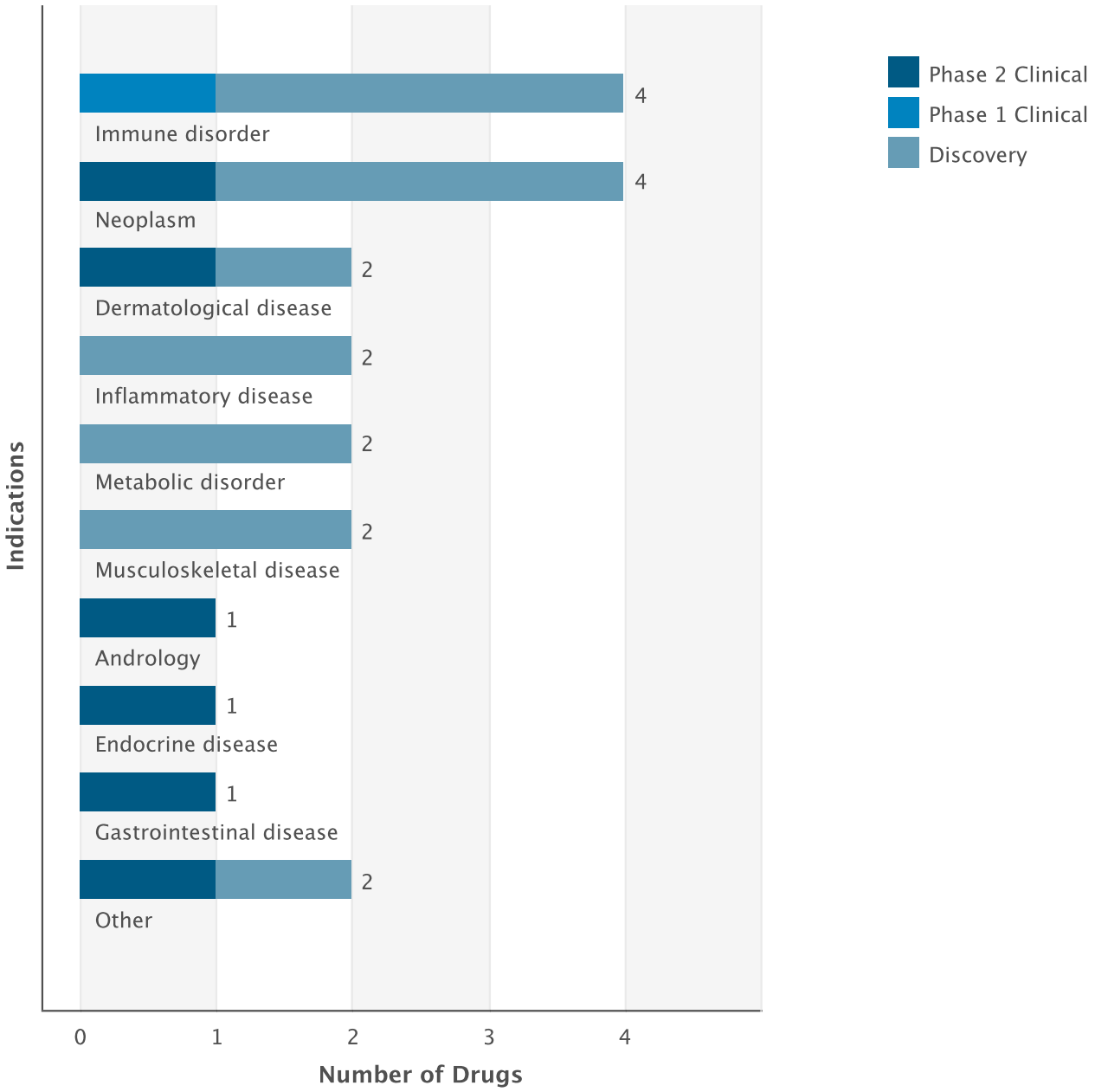
PRODUCT PORTFOLIO SUMMARY

DRUGS

Drugs by Indication

Active Drugs by Indication Chart



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Drugs by Indication Table

Indication	Active	Inactive	Total
Neoplasm	4	2	6
Immune disorder	4	1	5
Dermatological disease	2	1	3
Infectious disease	1	2	3
Musculoskeletal disease	2	0	2
Metabolic disorder	2	0	2
Inflammatory disease	2	0	2
Unidentified indication	0	1	1
Hematological disease	1	0	1
Genitourinary disease	1	0	1
Endocrine disease	1	0	1
Andrology	1	0	1
Respiratory disease	1	0	1
Gastrointestinal disease	1	0	1
Gynecology and obstetrics	1	0	1
Neurological disease	1	0	1

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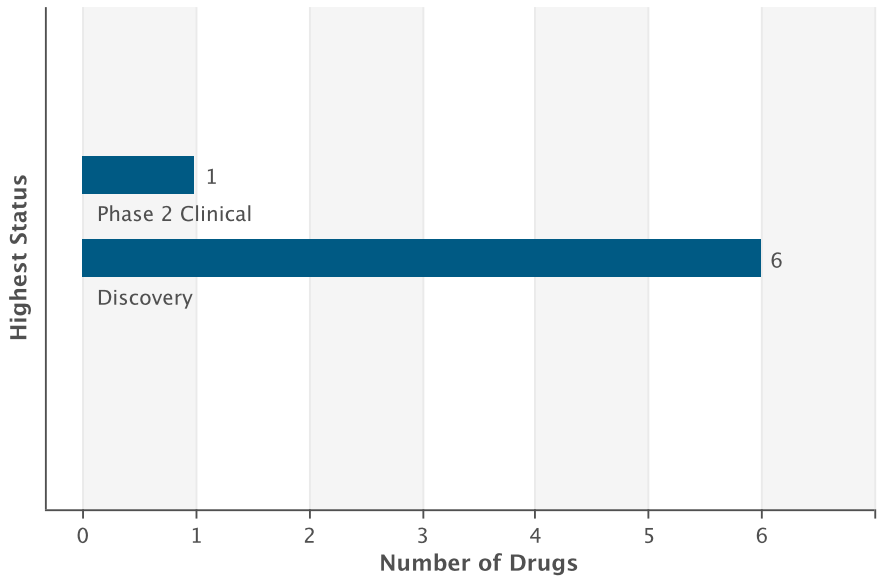
Drugs by Highest Status

Active Drugs by Highest Status Chart



Drugs by Highest Status Table

Development Status	Number of Drugs
Phase 2 Clinical	1
Discovery	6
Discontinued	1
No Development Reported	2

DEALS

Deal Type	Principal		Partner		Total
	Active	Inactive	Active	Inactive	
Drug - Discovery/Design	0	0	1	0	1
Drug - Funding	3	0	0	0	3
Drug - Early Research/Development	0	0	1	0	1
Drug - Development Services	0	0	4	0	4

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CLINICAL TRIALS

Trials by Condition Studied

Condition Studied	Ongoing	All
Neoplasm	19	20
Hematological disease	8	9
Gastrointestinal disease	4	4
Immune disorder	2	3
Genitourinary disease	2	2
Respiratory disease	2	2
Endocrine disease	2	2
Andrology	1	1
Gynecology and obstetrics	1	1
Dermatological disease	1	1

Trials by Phase

Phase	Ongoing	All
Phase 2	10	10
Phase 1	9	10

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	2	0	2
Genitourinary disease	4	0	4
Hematological disease	1	0	1
Immune disorder	4	0	4

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Psychiatric disorder	1	0	1
Neoplasm	7	0	7
Ocular disease	3	0	3
Neurological disease	4	0	4
Nutritional disorder	1	0	1
Respiratory disease	5	0	5
Infectious disease	6	0	6
Injury	1	0	1
Inflammatory disease	6	0	6
Dermatological disease	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 DRUG PIPELINE DETAIL

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

selinexor

selinexor SNAPSHOT

Drug Name	selinexor
Key Synonyms	selinexor
Originator Company	Karyopharm Therapeutics Inc
Active Companies	Karyopharm Therapeutics Inc
Inactive Companies	
Highest Status	Phase 2 Clinical
Active Indications	Endometrioid carcinoma;Hematological neoplasm;Lung tumor;Gastrointestinal tumor;Glioblastoma;Cancer;Solid tumor;Myelodysplastic syndrome;Rectal tumor;Acute myelogenous leukemia;Multiple myeloma;Pancreas tumor;Hormone refractory prostate cancer;Uterine cervix tumor;Squamous cell carcinoma;Systemic lupus erythematosus;Viral infection;Female genital tract tumor;Ovary tumor;Neuroendocrine tumor;Sarcoma
Target-based Actions	Abl tyrosine kinase inhibitor;Cyclin-dependent kinase inhibitor 1B stimulator;Exportin 1 inhibitor;Bcr protein inhibitor
Other Actions	DNA synthesis inhibitor;Anti-inflammatory;Anticancer protein kinase inhibitor;Synergist;Cell cycle inhibitor;Apoptosis stimulator;Antiviral
Technologies	Oral formulation;Small molecule therapeutic
Last Change Date	11-Nov-2014

selinexor DEVELOPMENT PROFILE

SUMMARY

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Karyopharm Therapeutics is developing selinexor (KPT-330; structure shown), a lead from a program of small-molecule nuclear transport inhibitors including KPT-276 (selective inhibitor of nuclear export; SINE; KPT-SINE), which targets nuclear pore complex machinery controlling the import and export of proteins between the nucleus and cytoplasm, including exportin 1 (CRM1), for the potential oral treatment of cancer, including blast crisis chronic myelogenous leukemia and Philadelphia-positive acute lymphoblastic leukemia (ALL), acute myeloid leukemia (AML), and T-cell ALL (T-ALL)prostate tumor, melanoma, osteosarcoma, NSCLC, neuroblastoma, glioblastoma, gynecologic malignancies, diffuse large B-cell lymphoma (DLBCL), squamous cell carcinoma, lung, gastrointestinal and pancreatic neuroendocrine tumors, myelodysplastic syndrome, multiple myeloma (MM) and Richter's transformation,, ,,, , ,; the company is also investigating selinexor for the potential treatment of systemic lupus erythematosus, HIV infection and rectal cancer,. In March 2014, a phase II trial in gynecological malignancies was initiated . In April 2014, a phase II trial for recurrent glioblastoma started . In May 2014, a phase II trial for metastatic hormone-refractory prostate cancer was initiated. In July 2014, a phase II trial in patients with advanced squamous cell carcinoma of the head and neck, lung, or esophagus began. in April 2014, a phase II AML study was initiated. In August 2014, a phase II trial was initiated in myelodysplastic syndrome. Also in August 2014, a phase II trial was initiated in patients with poorly differentiated lung and gastrointestinal and pancreatic neuroendocrine tumors. In November 2014, a phase II trial for Richter's transformation was initiated and at that time, the study was expected to take two years to complete. In June 2012, two phase I trials for cancer began; in June 2013, data were presented. In July 2013, a phase Ib trial was initiated for sarcoma. By February 2014, phase I trials for solid tumors . In May 2014, a phase I trial was planned in rectal cancer patients.

selinexor DEVELOPMENT STATUS

CURRENT DEVELOPMENT STATUS

Company	Indication	Country	Development Status	Date
Karyopharm Therapeutics Inc	Acute myelogenous leukemia	US	Phase 2 Clinical	14-Apr-2014
Karyopharm Therapeutics Inc	Endometrioid carcinoma	Belgium	Phase 2 Clinical	24-Apr-2014
Karyopharm Therapeutics Inc	Endometrioid carcinoma	Denmark	Phase 2 Clinical	21-Mar-2014
Karyopharm Therapeutics Inc	Female genital tract tumor	Belgium	Phase 2 Clinical	24-Apr-2014
Karyopharm Therapeutics Inc	Gastrointestinal tumor	US	Phase 2 Clinical	31-Aug-2014
Karyopharm Therapeutics Inc	Glioblastoma	Denmark	Phase 2 Clinical	29-Apr-2014
Karyopharm Therapeutics Inc	Glioblastoma	US	Phase 2 Clinical	29-Apr-2014
Karyopharm Therapeutics Inc	Hematological neoplasm	US	Phase 2 Clinical	10-Nov-2014
Karyopharm Therapeutics Inc	Hormone refractory prostate cancer	US	Phase 2 Clinical	23-May-2014
Karyopharm Therapeutics Inc	Lung tumor	US	Phase 2 Clinical	31-Aug-2014
Karyopharm Therapeutics Inc	Myelodysplastic syndrome	US	Phase 2 Clinical	31-Aug-2014
Karyopharm Therapeutics Inc	Neuroendocrine tumor	US	Phase 2 Clinical	31-Aug-2014
Karyopharm Therapeutics Inc	Ovary tumor	Belgium	Phase 2 Clinical	24-Apr-2014
Karyopharm Therapeutics Inc	Ovary tumor	Denmark	Phase 2 Clinical	21-Mar-2014
Karyopharm Therapeutics Inc	Pancreas tumor	US	Phase 2 Clinical	31-Aug-2014

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Company	Indication	Country	Development Status	Date
Karyopharm Therapeutics Inc	Squamous cell carcinoma	US	Phase 2 Clinical	31-Jul-2014
Karyopharm Therapeutics Inc	Uterine cervix tumor	Belgium	Phase 2 Clinical	24-Apr-2014
Karyopharm Therapeutics Inc	Uterine cervix tumor	Denmark	Phase 2 Clinical	21-Mar-2014
Karyopharm Therapeutics Inc	Hematological neoplasm	Denmark	Phase 1 Clinical	25-Jul-2012
Karyopharm Therapeutics Inc	Multiple myeloma	US	Phase 1 Clinical	22-Jul-2014
Karyopharm Therapeutics Inc	Sarcoma	Canada	Phase 1 Clinical	31-Jul-2013
Karyopharm Therapeutics Inc	Sarcoma	US	Phase 1 Clinical	31-Jul-2013
Karyopharm Therapeutics Inc	Solid tumor	Canada	Phase 1 Clinical	08-Jun-2012
Karyopharm Therapeutics Inc	Solid tumor	Denmark	Phase 1 Clinical	25-Jul-2012
Karyopharm Therapeutics Inc	Solid tumor	Europe	Phase 1 Clinical	27-Feb-2014
Karyopharm Therapeutics Inc	Solid tumor	North America	Phase 1 Clinical	27-Feb-2014
Karyopharm Therapeutics Inc	Solid tumor	Singapore	Phase 1 Clinical	27-Feb-2014
Karyopharm Therapeutics Inc	Acute myelogenous leukemia	Canada	Discovery	24-Jun-2014
Karyopharm Therapeutics Inc	Acute myelogenous leukemia	Europe	Discovery	24-Jun-2014
Karyopharm Therapeutics Inc	Acute myelogenous leukemia	Israel	Discovery	24-Jun-2014
Karyopharm Therapeutics Inc	Cancer	US	Discovery	07-Jun-2010
Karyopharm Therapeutics Inc	Rectal tumor	Israel	Discovery	01-May-2014
Karyopharm Therapeutics Inc	Systemic lupus erythematosus	US	Discovery	14-Nov-2012
Karyopharm Therapeutics Inc	Viral infection	US	Discovery	12-May-2013

selinexor CHEMICAL STRUCTURES

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CAS Registry Number:	Confidence Level:
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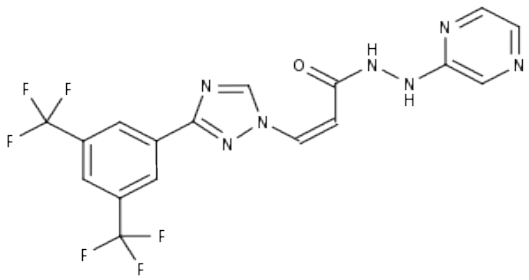

Name	Type
selinexor	INN
KPT-330	Research Code

CAS Registry Number:	Confidence Level:
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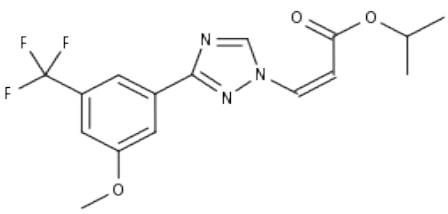

Name	Type
KPT-185	Research Code

CAS Registry Number:	Confidence Level:
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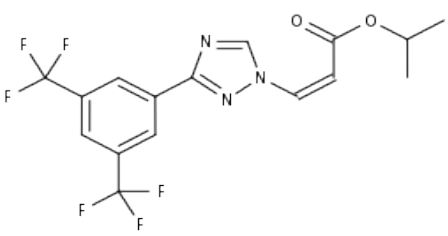

Name	Type
KPT-249	Research Code

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CAS Registry Number:	Confidence Level:
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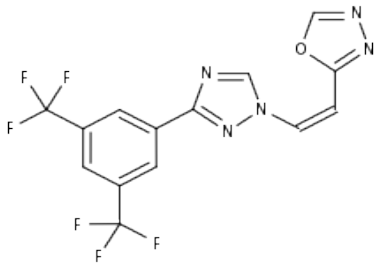

Name	Type
KPT-251	Research Code

CAS Registry Number:	Confidence Level:
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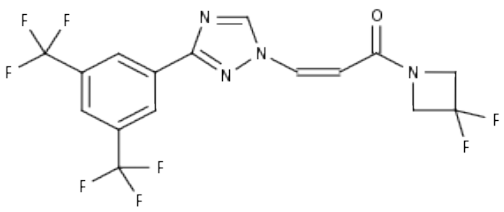

Name	Type
KPT-276	Research Code

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selinexor DRUG NAMES

Names	Type
KPT-SINE	Research Code
nuclear transport inhibitors (inflammation/viral diseases/cancer), Karyopharm Therapeutics	
KPT-276	Research Code
Exportin-1 inhibitors (inflammation/viral diseases/cancer), Karyopharm Therapeutics	
selective nuclear export inhibitors (autoimmune/inflammation/HIV/cancer/dermatological disease), Karyopharm Therapeutics	
KPT-185	Research Code
KPT-251	Research Code
CRM-1 inhibitors (inflammation/viral diseases/cancer), Karyopharm Therapeutics	
KPT-330	Research Code
selective nuclear export inhibitors (autoimmune diseases/HIV/cancer), Karyopharm Therapeutics	
KPT-XXX	Research Code
KPT-225	Research Code
KPT-249	Research Code
KPT-207	Research Code
selinexor	INN
SINE (autoimmune diseases/HIV/cancer), Karyopharm Therapeutics	

selinexor 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
Acute myelogenous leukemia											
0	0	0	0	2	2	2	2	0	0	4	4
Diffuse large B-cell lymphoma											
0	0	0	0	2	2	0	0	0	0	2	2

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Prostate tumor											
0	0	0	0	2	2	0	0	0	0	2	2
Metastatic esophageal cancer											
0	0	0	0	1	1	1	1	0	0	2	2
Advanced solid tumor											
0	0	0	0	0	0	2	2	0	0	2	2
Endometrioid carcinoma											
0	0	0	0	1	1	0	1	0	0	1	2
Multiple myeloma											
0	0	0	0	0	0	0	2	0	0	0	2
Neuroendocrine tumor											
0	0	0	0	1	1	0	0	0	0	1	1
Acute lymphoblastic leukemia											
0	0	0	0	0	0	1	1	0	0	1	1
Gastrointestinal tumor											
0	0	0	0	1	1	0	0	0	0	1	1
Hematological neoplasm											
0	0	0	0	0	0	1	1	0	0	1	1
Leukemia											
0	0	0	0	0	0	1	1	0	0	1	1
Glioblastoma											
0	0	0	0	1	1	0	0	0	0	1	1
Peritoneal tumor											
0	0	0	0	1	1	0	0	0	0	1	1
Uterine cervix tumor											
0	0	0	0	1	1	0	0	0	0	1	1
Mouth tumor											
0	0	0	0	0	0	0	0	1	1	1	1

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Myelodysplastic syndrome											
0	0	0	0	1	1	0	0	0	0	1	1
Metastatic rectal cancer											
0	0	0	0	0	0	1	1	0	0	1	1
Soft tissue sarcoma											
0	0	0	0	0	0	1	1	0	0	1	1
Fallopian tube cancer											
0	0	0	0	1	1	0	0	0	0	1	1
Metastatic stomach cancer											
0	0	0	0	0	0	1	1	0	0	1	1
Metastatic head and neck cancer											
0	0	0	0	1	1	0	0	0	0	1	1
Melanoma											
0	0	0	0	0	0	1	1	0	0	1	1
Pancreas tumor											
0	0	0	0	1	1	0	0	0	0	1	1
Ovary tumor											
0	0	0	0	1	1	0	0	0	0	1	1
Lung tumor											
0	0	0	0	1	1	0	0	0	0	1	1
Metastatic lung cancer											
0	0	0	0	1	1	0	0	0	0	1	1
Metastatic pancreas cancer											
0	0	0	0	0	0	0	1	0	0	0	1
Metastatic ovary cancer											
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	11	11	10	14	1	1	22	26

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

selinexor DEALS AND PATENTS

DEALS

Deals by Parent Company Chart

Active Deals
Total: 6

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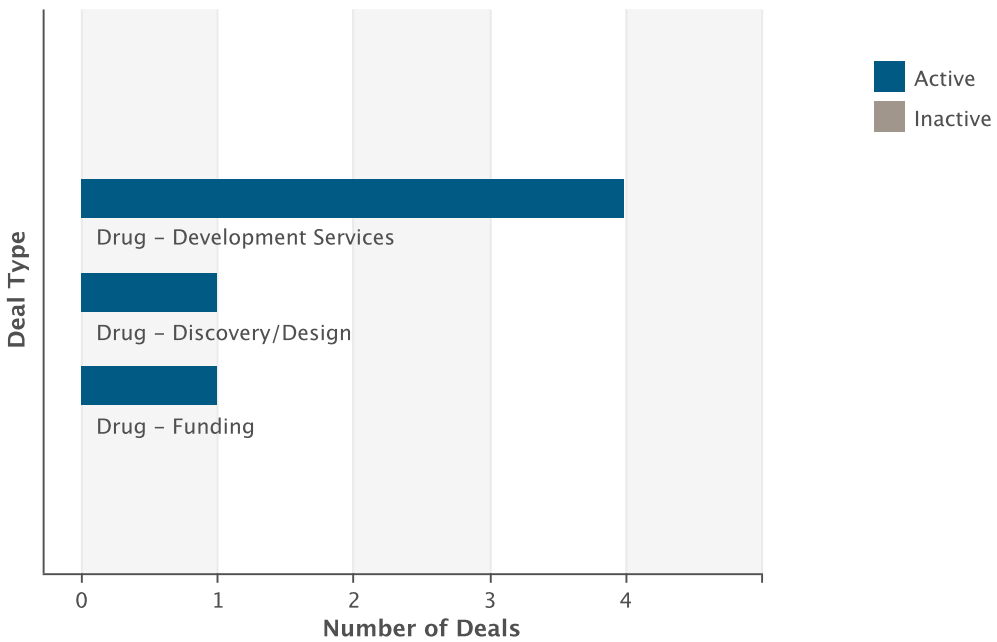
Deals by Parent Company Table

Company Name	Principal		Partner		Total
	Active	Inactive	Active	Inactive	
Karyopharm Therapeutics Inc	1	0	5	0	6
Oxygen Healthcare	1	0	0	0	1
william lawrence and blanche hughes foundation	0	0	1	0	1
Clinipace	1	0	0	0	1
Harvard Medical School	1	0	0	0	1
Veristat, Inc.	1	0	0	0	1
Catholic University of Leuven	1	0	0	0	1

Deals by Type Chart



Deals by Type Table

Deal Type	Active	Inactive	Total
Drug - Development Services	4	0	4
Drug - Discovery/Design	1	0	1
Drug - Funding	1	0	1

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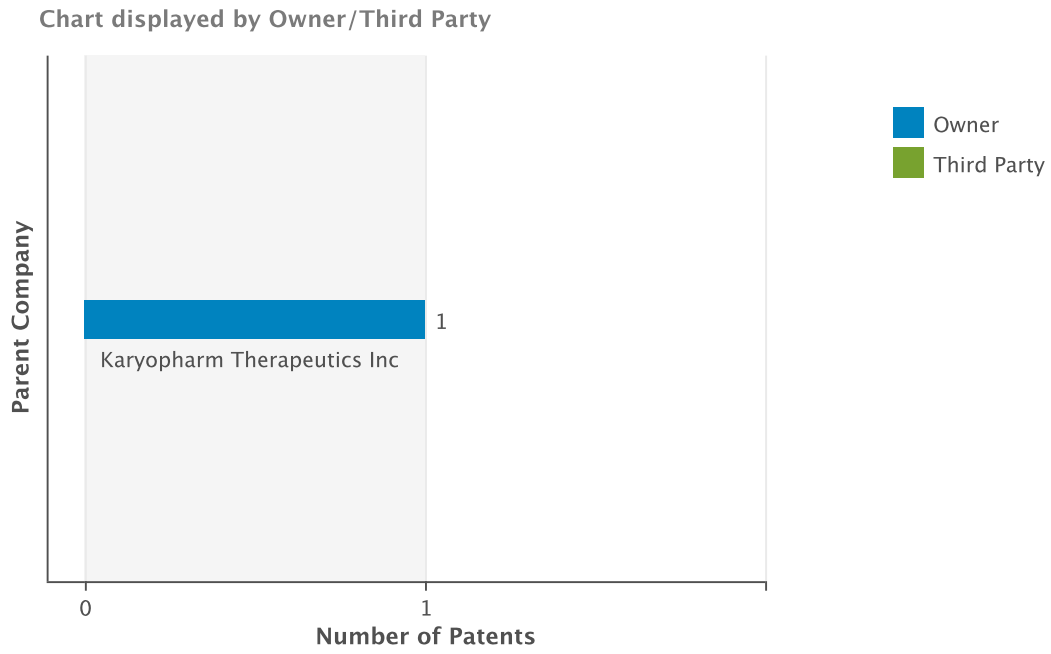
PATENTS

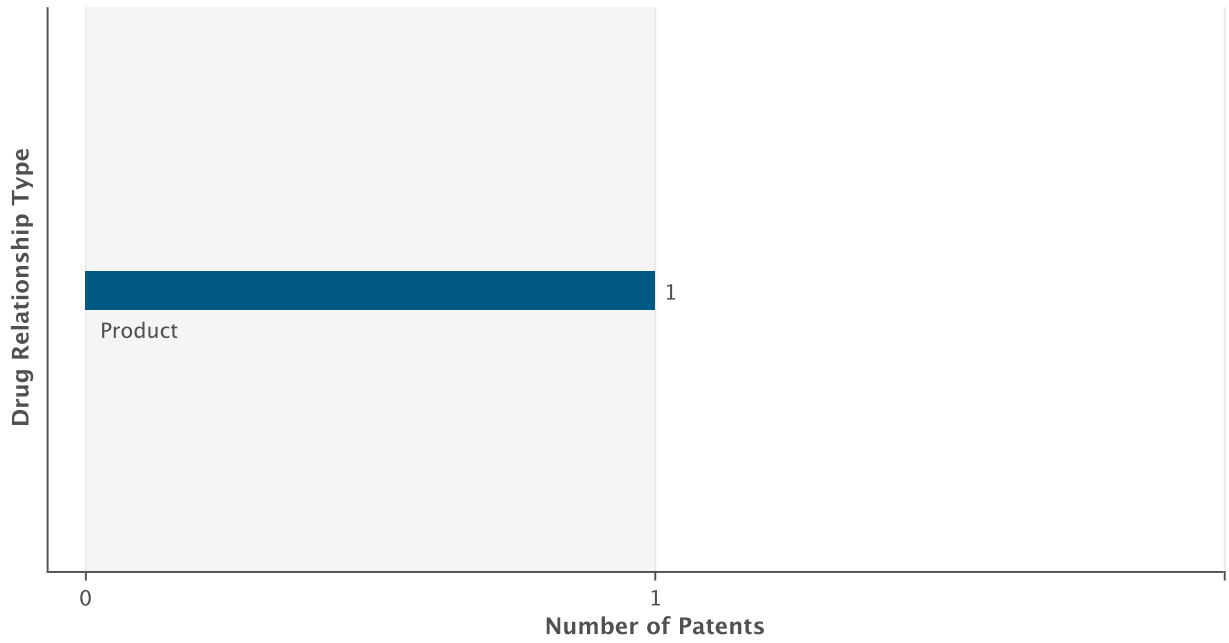
Patents by Parent Company Chart



Patents by Parent Company Table

Company Name	As Owner	As Third Party	Total
Karyopharm Therapeutics 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

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anticancer compounds, Karyopharm Therapeutics

anticancer compounds, Karyopharm Therapeutics SNAPSHOT

Drug Name	anticancer compounds, Karyopharm Therapeutics
Key Synonyms	
Originator Company	Karyopharm Therapeutics Inc
Active Companies	Karyopharm Therapeutics Inc
Inactive Companies	
Highest Status	Discovery
Active Indications	Cancer
Target-based Actions	
Other Actions	Anticancer;Unspecified drug target
Technologies	Small molecule therapeutic
Last Change Date	04-Jun-2013

anticancer compounds, Karyopharm Therapeutics DEVELOPMENT PROFILE

SUMMARY

Karyopharm Therapeutics is investigating undisclosed therapeutics for the potential treatment of cancer. In June 2013, the program was listed as being in discovery.

anticancer compounds, Karyopharm Therapeutics DEVELOPMENT STATUS

CURRENT DEVELOPMENT STATUS

Company	Indication	Country	Development Status	Date
Karyopharm Therapeutics Inc	Cancer	US	Discovery	04-Jun-2013

anticancer compounds, Karyopharm Therapeutics DRUG NAMES

Names	Type
anticancer compounds, Karyopharm Therapeutics	

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KPT-350

KPT-350 SNAPSHOT

Drug Name	KPT-350
Key Synonyms	
Originator Company	Karyopharm Therapeutics Inc
Active Companies	Karyopharm Therapeutics Inc
Inactive Companies	
Highest Status	Discovery
Active Indications	Inflammatory disease;Systemic lupus erythematosus
Target-based Actions	Nuclear factor kappa B inhibitor;Exportin 1 inhibitor
Other Actions	Immunosuppressant;Anti-inflammatory
Technologies	Oral formulation;Small molecule therapeutic
Last Change Date	28-Nov-2013

KPT-350 DEVELOPMENT PROFILE

SUMMARY

KPT-350 DEVELOPMENT STATUS

CURRENT DEVELOPMENT STATUS

Company	Indication	Country	Development Status	Date
Karyopharm Therapeutics Inc	Inflammatory disease	US	Discovery	04-Jun-2013
Karyopharm Therapeutics Inc	Systemic lupus erythematosus	US	Discovery	04-Jun-2013

KPT-350 DRUG NAMES

Names	Type
KPT-350	Research Code
oral NF-B inhibitor (inflammatory disease/systemic lupus erythematosus), Karyopharm Therapeutics	

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nuclear import inhibitor (cancer), Karyopharm Therapeutics

nuclear import inhibitor (cancer), Karyopharm Therapeutics SNAPSHOT

Drug Name	nuclear import inhibitor (cancer), Karyopharm Therapeutics
Key Synonyms	SINE
Originator Company	Karyopharm Therapeutics Inc
Active Companies	Karyopharm Therapeutics Inc
Inactive Companies	
Highest Status	Discovery
Active Indications	Cancer
Target-based Actions	
Other Actions	Anticancer;Unspecified drug target
Technologies	Small molecule therapeutic
Last Change Date	19-Sep-2013

nuclear import inhibitor (cancer), Karyopharm Therapeutics DEVELOPMENT PROFILE

SUMMARY

Karyopharm Therapeutics is investigating selective inhibitors of nuclear import (SINE) for the potential treatment of cancer. In November 2012, the program was listed as being in discovery. In September 2013, the program was listed as being in preclinical development .

nuclear import inhibitor (cancer), Karyopharm Therapeutics DEVELOPMENT STATUS

CURRENT DEVELOPMENT STATUS

Company	Indication	Country	Development Status	Date
Karyopharm Therapeutics Inc	Cancer	US	Discovery	22-Nov-2012

nuclear import inhibitor (cancer), Karyopharm Therapeutics DRUG NAMES

Names	Type
SINE	Trade Name
nuclear import inhibitor (cancer), Karyopharm Therapeutics	
nuclear import inhibitor, Karyopharm Therapeutics	

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KPT-355

KPT-355 SNAPSHOT

Drug Name	KPT-355
Key Synonyms	
Originator Company	Karyopharm Therapeutics Inc
Active Companies	Karyopharm Therapeutics Inc
Inactive Companies	Rega Institute for Medical Research
Highest Status	Discovery
Active Indications	Inflammatory disease;Autoimmune disease
Target-based Actions	Exportin 1 inhibitor
Other Actions	Anticancer;Anti-inflammatory;Antiviral
Technologies	Oral formulation;Small molecule therapeutic
Last Change Date	28-Nov-2013

KPT-355 DEVELOPMENT PROFILE

SUMMARY

Karyopharm Therapeutics, in collaboration with Rega Institute for Medical Research, is investigating KPT-355, a lead from oral selective inhibitors of nuclear export (SINE) directed against the chromosomal region maintenance 1 receptor (CRM1; exportin 1), for the potential treatment of autoimmune and inflammatory diseases including psoriasis, systemic lupus erythematosus, multiple sclerosis and rheumatoid arthritis; viral infections including influenza, RSV and HIV infections; and cancer,,. In November 2012, the drug was listed as being in preclinical development. In October 2013, preclinical data were presented.

The company was previously investigating KPT-355, for the potential treatment of viral infections including influenza, RSV and HIV infections; and cancer,,. In November 2012, the drug was listed as being in preclinical development. However, in June 2013, the drug was no longer listed on the pipeline as being under investigation for viral infection and cancer

KPT-355 DEVELOPMENT STATUS

CURRENT DEVELOPMENT STATUS

Company	Indication	Country	Development Status	Date
Karyopharm Therapeutics Inc	Autoimmune disease	US	Discovery	07-Jun-2010
Karyopharm Therapeutics Inc	Inflammatory disease	US	Discovery	07-Jun-2010
Karyopharm Therapeutics Inc	Cancer	US	No Development Reported	04-Jun-2013
Karyopharm Therapeutics Inc	Viral infection	US	No Development Reported	04-Jun-2013

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Company	Indication	Country	Development Status	Date
Rega Institute for Medical Research	Autoimmune disease	Belgium	No Development Reported	04-Jun-2013
Rega Institute for Medical Research	Cancer	US	No Development Reported	04-Jun-2013
Rega Institute for Medical Research	Inflammatory disease	Belgium	No Development Reported	04-Jun-2013
Rega Institute for Medical Research	Viral infection	Belgium	No Development Reported	04-Jun-2013

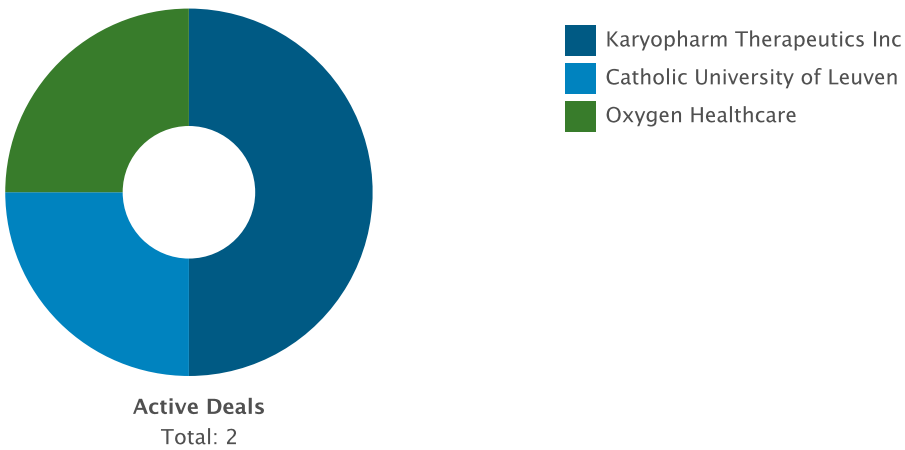
KPT-355 DRUG NAMES

Names	Type
KPT-355	Research Code

KPT-355 DEALS AND PATENTS

DEALS

Deals by Parent Company Chart



Active Deals
Total: 2

Deals by Parent Company Table

Company Name	Principal		Partner		Total
	Active	Inactive	Active	Inactive	
Karyopharm Therapeutics Inc	0	0	2	0	2
Catholic University of Leuven	1	0	0	0	1
Oxygen Healthcare	1	0	0	0	1

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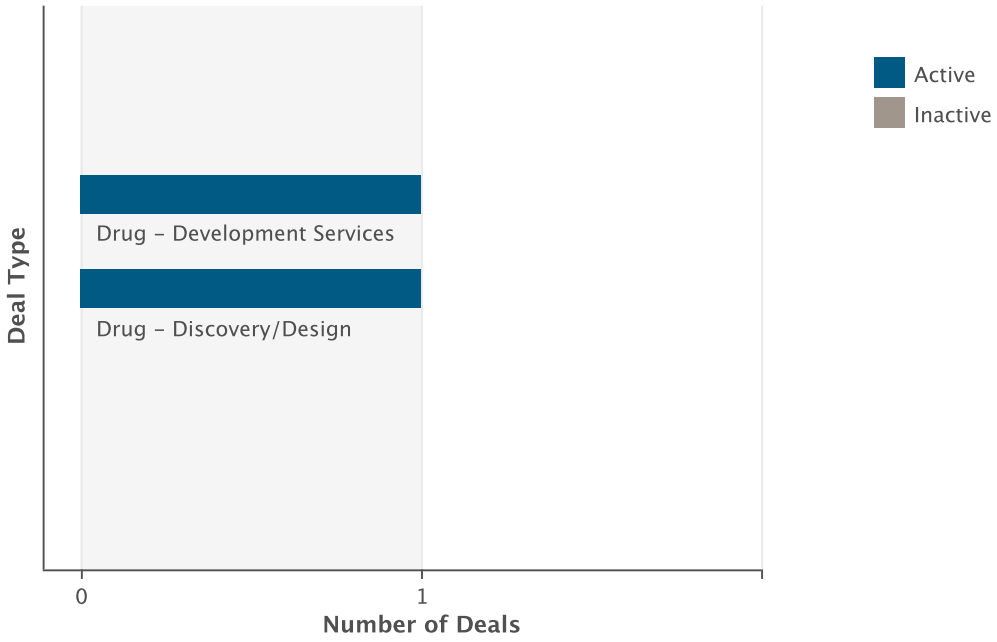
Deals by Type Chart



Deals by Type Table

Deal Type	Active	Inactive	Total
Drug - Discovery/Design	1	0	1
Drug - Development Services	1	0	1

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PAK4 inhibitors (oral, cancer), Karyopharm Therapeutics

PAK4 inhibitors (oral, cancer), Karyopharm Therapeutics SNAPSHOT

Drug Name	PAK4 inhibitors (oral, cancer), Karyopharm Therapeutics
Key Synonyms	
Originator Company	Karyopharm Therapeutics Inc
Active Companies	Karyopharm Therapeutics Inc
Inactive Companies	
Highest Status	Discovery
Active Indications	Cancer
Target-based Actions	PAK-4 protein kinase inhibitor
Other Actions	Cell cycle inhibitor;Anticancer protein kinase inhibitor;Apoptosis stimulator
Technologies	Oral formulation;Small molecule therapeutic
Last Change Date	27-Oct-2014

PAK4 inhibitors (oral, cancer), Karyopharm Therapeutics DEVELOPMENT PROFILE

SUMMARY

Karyopharm Therapeutics is investigating small molecule inhibitors of P21-activated kinase 4 (PAK4) including KPT-8752 and KPT-7523, for the potential oral treatment of cancer including hematological and pancreatic cancer. In September 2013, development was ongoing.

PAK4 inhibitors (oral, cancer), Karyopharm Therapeutics DEVELOPMENT STATUS

CURRENT DEVELOPMENT STATUS

Company	Indication	Country	Development Status	Date
Karyopharm Therapeutics Inc	Cancer	US	Discovery	19-Sep-2013

PAK4 inhibitors (oral, cancer), Karyopharm Therapeutics DRUG NAMES

Names	Type
KPT-7651	Research Code
KPT-8752	Research Code
PAK4 inhibitors (oral, cancer), Karyopharm Therapeutics	
KPT-7523	Research Code

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SINE compounds (multiple sclerosis), Mount Sinai School of Medicine/ Karyopharm Therapeutics

SINE compounds (multiple sclerosis), Mount Sinai School of Medicine/ Karyopharm Therapeutics SNAPSHOT

Drug Name	SINE compounds (multiple sclerosis), Mount Sinai School of Medicine/ Karyopharm Therapeutics
Key Synonyms	
Originator Company	Mount Sinai School of Medicine
Active Companies	Karyopharm Therapeutics Inc;Mount Sinai School of Medicine
Inactive Companies	
Highest Status	Discovery
Active Indications	Multiple sclerosis
Target-based Actions	Exportin 1 inhibitor
Other Actions	Anti-inflammatory
Technologies	Small molecule therapeutic
Last Change Date	10-Jan-2014

SINE compounds (multiple sclerosis), Mount Sinai School of Medicine/ Karyopharm Therapeutics DEVELOPMENT PROFILE

SUMMARY

Karyopharm Therapeutics and Mount Sinai School of Medicine are investigating selective inhibitors of nuclear export (SINE) compounds that inhibit Exportin-1 for the potential treatment of multiple sclerosis and other inflammatory diseases. In January 2014, studies were planned in order to potentially select a candidate for early-stage clinical trials in multiple sclerosis.

SINE compounds (multiple sclerosis), Mount Sinai School of Medicine/ Karyopharm Therapeutics DEVELOPMENT STATUS

CURRENT DEVELOPMENT STATUS

Company	Indication	Country	Development Status	Date
Karyopharm Therapeutics Inc	Multiple sclerosis	US	Discovery	08-Jan-2014
Mount Sinai School of Medicine	Multiple sclerosis	US	Discovery	08-Jan-2014

SINE compounds (multiple sclerosis), Mount Sinai School of Medicine/ Karyopharm Therapeutics DRUG NAMES

Names	Type
selective inhibitors of nuclear export (multiple sclerosis), Mount Sinai School of Medicine/ Karyopharm Therapeutics	
SINE compounds (multiple sclerosis), Mount Sinai School of Medicine/ Karyopharm Therapeutics	

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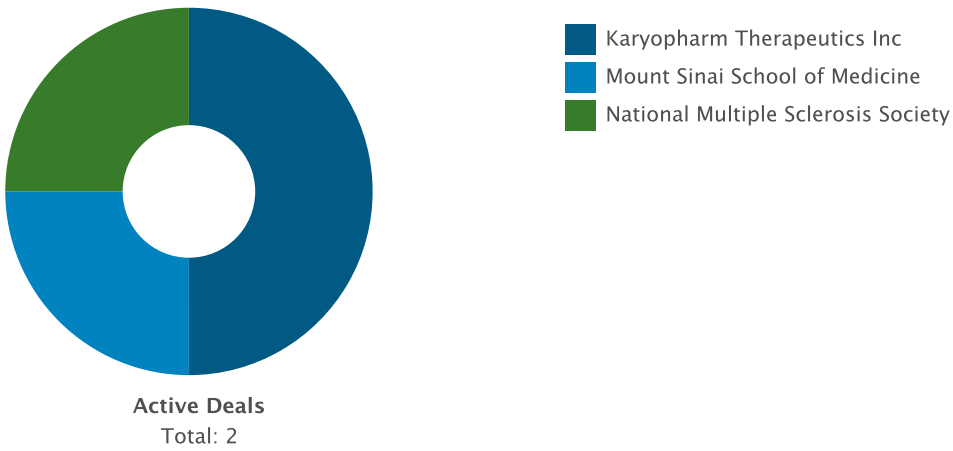
SINE compounds (multiple sclerosis), Mount Sinai School of Medicine/ Karyopharm Therapeutics DEALS AND PATENTS

DEALS

Deals by Parent Company Chart



Deals by Parent Company Table

Company Name	Principal		Partner		Total
	Active	Inactive	Active	Inactive	
Karyopharm Therapeutics Inc	1	0	1	0	2
Mount Sinai School of Medicine	1	0	0	0	1
National Multiple Sclerosis Society	0	0	1	0	1

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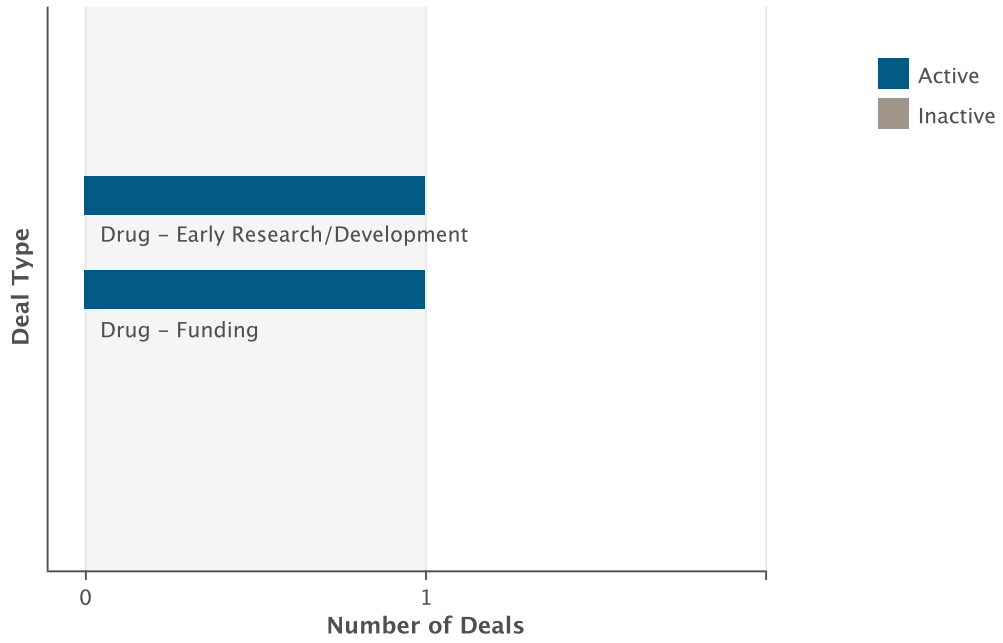
Deals by Type Chart



Deals by Type Table

Deal Type	Active	Inactive	Total
Drug - Funding	1	0	1
Drug - Early Research/Development	1	0	1

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