

# Histone Deacetylase 6 (Protein Phosphatase 1 Regulatory Subunit 90 or HDAC6 or EC 3.5.1.98) - Pipeline Review, H1 2018

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## Abstracts

Histone Deacetylase 6 (Protein Phosphatase 1 Regulatory Subunit 90 or HDAC6 or EC 3.5.1.98) - Pipeline Review, H1 2018

### SUMMARY

Histone Deacetylase 6 (Protein Phosphatase 1 Regulatory Subunit 90 or HDAC6 or EC 3.5.1.98) - Histone deacetylase 6 is an enzyme encoded by the HDAC6 gene. Histone deacetylation gives a tag for epigenetic repression and plays an important role in transcriptional regulation, cell cycle progression and developmental events.

Histone deacetylases plays a central role in microtubule-dependent cell motility via deacetylation of tubulin. It is involved in the MTA1-mediated epigenetic regulation of ESR1 expression in breast cancer. It plays a key role in the degradation of misfolded proteins. It acts as an adapter that recognizes polyubiquitinated misfolded proteins and target them to the aggresome, facilitating their clearance by autophagy.

Histone Deacetylase 6 (Protein Phosphatase 1 Regulatory Subunit 90 or HDAC6 or EC 3.5.1.98) pipeline Target constitutes close to 37 molecules. Out of which approximately 30 molecules are developed by companies and remaining by the universities/institutes. The molecules developed by companies in Phase II, Phase I, Preclinical and Discovery stages are 4, 3, 13 and 10 respectively.

Similarly, the universities portfolio in Preclinical and Discovery stages comprises 5 and 2 molecules, respectively. Report covers products from therapy areas Oncology, Central Nervous System, Genetic Disorders, Immunology, Toxicology, Dermatology and

Infectious Disease which include indications Multiple Myeloma (Kahler Disease), Melanoma, Breast Cancer, Charcot-Marie-Tooth Disease Type II, Colorectal Cancer, Mantle Cell Lymphoma, Non-Small Cell Lung Cancer, Pancreatic Cancer, Solid Tumor, Alzheimer's Disease, Autoimmune Disorders, Charcot-Marie-Tooth Disease, Chemotherapy Induced Peripheral Neuropathy, Chronic Lymphocytic Leukemia (CLL), Depression, Follicular Lymphoma, Hodgkin Lymphoma (B-Cell Hodgkin Lymphoma), Multiple Sclerosis, Non-Hodgkin Lymphoma, Ovarian Cancer, Refractory Multiple Myeloma, Relapsed Multiple Myeloma, Rheumatoid Arthritis, Acid Sphingomyelinase Deficiency (Niemann-Pick Disease) Type C, Alopecia, Anaplastic Thyroid Cancer, B-Cell Non-Hodgkin Lymphoma, Basal Cell Carcinoma (Basal Cell Epithelioma), Bile Duct Cancer (Cholangiocarcinoma), Bladder Cancer, Burkitt Lymphoma, CNS Lymphoma, Colon Cancer, Cutaneous T-Cell Lymphoma, Diabetic Neuropathic Pain, Diffuse Large B-Cell Lymphoma, Fallopian Tube Cancer, Glioblastoma Multiforme (GBM), Glioma, Gliosarcoma, Human Papillomavirus (HPV) Associated Cancer, Huntington Disease, Liver Cancer, Lung Adenocarcinoma, Lung Cancer, Lupus Nephritis, Lymphoma, Metastatic Breast Cancer, Metastatic Renal Cell Carcinoma, Mycosis Fungoides, Neuroblastoma, Neurodegenerative Diseases, NUT Midline Carcinoma (NMC or Nuclear Protein in Testis Midline Carcinoma), Papillary Thyroid Cancer, Parkinson's Disease, Peritoneal Cancer, Polycystic Kidney Disease, Prostate Cancer, Recurrent Glioblastoma Multiforme (GBM), Refractory Acute Myeloid Leukemia, Relapsed Acute Myeloid Leukemia, Sepsis, Soft Tissue Sarcoma, Squamous Cell Carcinoma, Systemic Lupus Erythematosus, Thyroid Cancer and Unspecified B-Cell Lymphomas.

The latest report Histone Deacetylase 6 - Pipeline Review, H1 2018, outlays comprehensive information on the Histone Deacetylase 6 (Protein Phosphatase 1 Regulatory Subunit 90 or HDAC6 or EC 3.5.1.98) targeted therapeutics, complete with analysis by indications, stage of development, mechanism of action (MoA), route of administration (RoA) and molecule type. It also reviews key players involved in Histone Deacetylase 6 (Protein Phosphatase 1 Regulatory Subunit 90 or HDAC6 or EC 3.5.1.98) targeted therapeutics development with respective active and dormant or discontinued projects.

The report is built using data and information sourced from proprietary databases, company/university websites, clinical trial registries, conferences, SEC filings, investor presentations and featured press releases from company/university sites and industry-specific third party sources.

**Note:** Certain content/sections in the pipeline guide may be removed or altered based on the availability and relevance of data.

## SCOPE

The report provides a snapshot of the global therapeutic landscape for Histone Deacetylase 6 (Protein Phosphatase 1 Regulatory Subunit 90 or HDAC6 or EC 3.5.1.98)

The report reviews Histone Deacetylase 6 (Protein Phosphatase 1 Regulatory Subunit 90 or HDAC6 or EC 3.5.1.98) targeted therapeutics under development by companies and universities/research institutes based on information derived from company and industry-specific sources

The report covers pipeline products based on various stages of development ranging from pre-registration till discovery and undisclosed stages

The report features descriptive drug profiles for the pipeline products which includes, product description, descriptive MoA, R&D brief, licensing and collaboration details & other developmental activities

The report reviews key players involved in Histone Deacetylase 6 (Protein Phosphatase 1 Regulatory Subunit 90 or HDAC6 or EC 3.5.1.98) targeted therapeutics and enlists all their major and minor projects

The report assesses Histone Deacetylase 6 (Protein Phosphatase 1 Regulatory Subunit 90 or HDAC6 or EC 3.5.1.98) targeted therapeutics based on mechanism of action (MoA), route of administration (RoA) and molecule type

The report summarizes all the dormant and discontinued pipeline projects

The report reviews latest news and deals related to Histone Deacetylase 6 (Protein Phosphatase 1 Regulatory Subunit 90 or HDAC6 or EC 3.5.1.98) targeted therapeutics

## REASONS TO BUY

Gain strategically significant competitor information, analysis, and insights to formulate effective R&D strategies

Identify emerging players with potentially strong product portfolio and create effective counter-strategies to gain competitive advantage

Identify and understand the targeted therapy areas and indications for Histone Deacetylase 6 (Protein Phosphatase 1 Regulatory Subunit 90 or HDAC6 or EC 3.5.1.98)

Identify the use of drugs for target identification and drug repurposing

Identify potential new clients or partners in the target demographic

Develop strategic initiatives by understanding the focus areas of leading companies

Plan mergers and acquisitions effectively by identifying key players and it's most promising pipeline therapeutics

Devise corrective measures for pipeline projects by understanding Histone Deacetylase 6 (Protein Phosphatase 1 Regulatory Subunit 90 or HDAC6 or EC 3.5.1.98) development landscape

Develop and design in-licensing and out-licensing strategies by identifying prospective partners with the most attractive projects to enhance and expand business potential and @Scope

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Chong Kun Dang Pharmaceutical Corp

Curis Inc

HitGen LTD

Kancera AB

Karus Therapeutics Ltd

Medivir AB

Merck & Co Inc

Millennium Pharmaceuticals Inc

OnKure Inc

Quimatrix SL

Shuttle Pharmaceuticals LLC

SK Biopharmaceuticals Co Ltd

Histone Deacetylase 6 (Protein Phosphatase 1 Regulatory Subunit 90 or HDAC6 or EC 3.5.1.98) - Drug Profiles

ACY-1083 - Drug Profile

Product Description

Mechanism Of Action

R&D Progress  
ACY-738 - Drug Profile  
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Mechanism Of Action

R&D Progress

KAN-0439221 - Drug Profile

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R&D Progress

KAN-0439782 - Drug Profile

Product Description

Mechanism Of Action

R&D Progress

MPT-0B291 - Drug Profile

Product Description

Mechanism Of Action

R&D Progress

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Mechanism Of Action

R&D Progress

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R&D Progress

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Product Description

Mechanism Of Action

R&D Progress

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Product Description

Mechanism Of Action

R&D Progress

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Featured News & Press Releases

Jan 04, 2018: SignalRx Announces In Silico Design And Discovery Of The First-In-Class HDAC6-BRD4-PI3K Epigenetic Kinase Inhibitor SRX3225

*Histone Deacetylase 6 (Protein Phosphatase 1 Regulatory Subunit 90 or HDAC6 or EC 3.5.1.98) - Pipeline Review,...*

Dec 01, 2017: Curis Announces Upcoming Presentation at the American Society of Hematology 59th Annual Meeting & Exposition

Oct 13, 2017: Remetinostat Phase II Data Demonstrate Efficacy on Skin Lesions, Reduction of Itching and High Tolerability in Patients With Early-stage MF-type CTCL

Sep 27, 2017: Clinical trial reveals genetic fault that reduces the effectiveness of leukaemia treatment

Sep 18, 2017: Karus Therapeutics Announces First Cancer Patients Dosed with KA2507, a Small Molecule HDAC6-Selective Inhibitor, in a Phase I Clinical Trial

May 25, 2017: Curis Announces Presentation Related to CUDC-907 at 2017 ASCO Annual Meeting

Apr 07, 2017: Medivir announces positive data from the phase II study of remetinostat in patients with early-stage cutaneous T-cell lymphoma

Mar 08, 2017: Regenacy Pharmaceuticals Demonstrates Reversal of Chemotherapy-Induced Peripheral Neuropathy with HDAC6 Inhibitor Ricolinostat in Preclinical Model

Dec 04, 2016: Acetylon Presents Early Phase 1a/1b Results for Citarinostat (ACY-241) in Combination with Pomalyst and Dexamethasone Showing Promising Treatment Responses in Relapsed or Relapsed-and-Refractory Multiple Myeloma

Dec 02, 2016: Acetylon to present data on Ricolinostat at the American Society of Hematology Annual Meeting

Dec 02, 2016: Acetylon to present data on ACY-738 at the American Society of Hematology Annual Meeting

Dec 02, 2016: Acetylon to present data on Citarinostat at the American Society of Hematology Annual Meeting

Jun 13, 2016: Acetylon Presents Data on the Use of HDAC6 Inhibitor Ricolinostat (ACY-1215) in Combination with Pomalidomide and Dexamethasone for the Treatment of Multiple Myeloma

Jun 13, 2016: Acetylon Presents Data on the Use of HDAC6 Inhibitor ACY-241 in Combination with Pomalidomide and Dexamethasone for the Treatment of Multiple Myeloma

Jun 08, 2016: Curis Announces Oral Presentation of Clinical Data Update from the Phase 1 Study of CUDC-907 at the 21st Congress of the European Hematology Association

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Celgene Corp  
Chong Kun Dang Pharmaceutical Corp  
Curis Inc  
HitGen LTD  
Kancera AB  
Karus Therapeutics Ltd  
Medivir AB  
Merck & Co Inc  
Millennium Pharmaceuticals Inc  
OnKure Inc  
Quimatrix SL  
Shuttle Pharmaceuticals LLC  
SK Biopharmaceuticals Co Ltd

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