

Histone Deacetylase 6 (HDAC 6) inhibitors - Pipeline Insight, 2022

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Abstracts

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DelveInsight's, "Histone Deacetylase 6 (HDAC 6) inhibitors - Pipeline Insight, 2022" report provides comprehensive insights about 10+ companies and 10+ pipeline drugs in Histone Deacetylase 6 (HDAC 6) inhibitors pipeline landscape. It covers the pipeline drug profiles, including clinical and nonclinical stage products. It also covers the therapeutics assessment by product type, stage, route of administration, and molecule type. It further highlights the inactive pipeline products in this space.

Geography Covered

Global coverage

Histone Deacetylase 6 (HDAC 6) inhibitors Understanding

Histone Deacetylase 6 (HDAC 6) inhibitors: Overview

Development of isoform-selective histone deacetylase (HDAC) inhibitors is important in elucidating the function of individual HDAC enzymes and their potential as therapeutic agents. Among the eleven zinc-dependent HDACs in humans, HDAC6 is structurally and functionally unique. Histone deacetylase 6 (HDAC6) is unique among the eleven zinc-dependent HDACs in humans. HDAC6 is located in the cytoplasm, and it has two catalytic domains and an ubiquitin-binding domain at the C-terminal region. HDAC6 plays a key role in the regulation of microtubule dynamics including cell migration and cell-cell interactions. The reversible acetylation of Hsp90, a substrate of HDAC6,

modulates its chaperone activity and, accordingly, the stability of survival and antiapoptotic factors, including epidermal growth factor receptor (EGFR), protein kinase AKT, proto-oncogene C-RAF, survivin, and other factors. HDAC6, through its ubiquitin-binding activity and interaction with other partner proteins, plays a role in the degradation of misfolded proteins by binding polyubiquitinated proteins and delivering them to the dynein and motor proteins for transport into aggresomes which are degraded by lysosomes. Thus, HDAC6 has multiple biological functions through deacetylase-dependent and -independent mechanisms modulating many cellular pathways relevant to normal and tumor cell growth, migration, and death. HDAC6 is an attractive target for potential cancer treatment.

'Histone Deacetylase 6 (HDAC 6) inhibitors - Pipeline Insight, 2022' report by DelveInsight outlays comprehensive insights of present scenario and growth prospects across the indication. A detailed picture of the Histone Deacetylase 6 (HDAC 6) inhibitors pipeline landscape is provided which includes the disease overview and Histone Deacetylase 6 (HDAC 6) inhibitors treatment guidelines. The assessment part of the report embraces, in depth Histone Deacetylase 6 (HDAC 6) inhibitors commercial assessment and clinical assessment of the pipeline products under development. In the report, detailed description of the drug is given which includes mechanism of action of the drug, clinical studies, NDA approvals (if any), and product development activities comprising the technology, Histone Deacetylase 6 (HDAC 6) inhibitors collaborations, licensing, mergers and acquisition, funding, designations and other product related details.

Report Highlights

? The companies and academics are working to assess challenges and seek opportunities that could influence Histone Deacetylase 6 (HDAC 6) inhibitors R&D. The therapies under development are focused on novel approaches to treat/improve Histone Deacetylase 6 (HDAC 6) inhibitors.

Histone Deacetylase 6 (HDAC 6) inhibitors Emerging Drugs Chapters

This segment of the Histone Deacetylase 6 (HDAC 6) inhibitors report encloses its detailed analysis of various drugs in different stages of clinical development, including phase II, I, preclinical and Discovery. It also helps to understand clinical trial details, expressive pharmacological action, agreements and collaborations, and the latest news and press releases.

Histone Deacetylase 6 (HDAC 6) inhibitors Emerging Drugs

Ricolinostat: Regenacy Pharmaceuticals

Ricolinostat, an oral, selective histone deacetylase 6 (HDAC6) inhibitor, has the potential to become the first-in-class treatment that reverses the underlying peripheral neuropathy, thereby relieving pain, numbness, motor function loss, and all other symptoms of the disease. Ricolinostat restores nerve function by inhibiting HDAC6, which reestablishes the transport function of microtubules in the axon of the nerve cell. Multiple preclinical animal models have demonstrated that HDAC6 inhibition restores nerve fibers, leading to the reversal of both pain and numbness in peripheral and other neuropathies, such as chemotherapy-induced peripheral neuropathy and Charcot-Marie-Tooth disease Type 2, an orphan-designated disease. It is currently being evaluated in Phase II clinical trial to treat Diabetic peripheral neuropathy.

CKD 504: Chong Kun Dang Pharmaceuticals

CKD 504 is HDAC6 protein inhibitor currently being developed and investigated in Phase I stage of development for the treatment of Huntington's disease.

Further product details are provided in the report.....

Histone Deacetylase 6 (HDAC 6) inhibitors: Therapeutic Assessment

This segment of the report provides insights about the different Histone Deacetylase 6 (HDAC 6) inhibitors drugs segregated based on following parameters that define the scope of the report, such as:

? Major Players in Histone Deacetylase 6 (HDAC 6) inhibitors

There are approx. 10+ key companies which are developing the therapies for Histone Deacetylase 6 (HDAC 6) inhibitors. The companies which have their Histone Deacetylase 6 (HDAC 6) inhibitors drug candidates in the most advanced stage, i.e. Phase II include Regenacy Pharmaceuticals.

? Phases

DelveInsight's report covers around 10+ products under different phases of clinical development like

Late stage products (Phase III)

Mid-stage products (Phase II)

Early-stage product (Phase I) along with the details of

Pre-clinical and Discovery stage candidates

Discontinued & Inactive candidates

? Route of Administration

Histone Deacetylase 6 (HDAC 6) inhibitors pipeline report provides the therapeutic assessment of the pipeline drugs by the Route of Administration. Products have been categorized under various ROAs such as

Subcutaneous

Intravenous

Intramuscular

? Molecule Type

Products have been categorized under various Molecule types such as

Peptides

Polymer

Small molecule

? Product Type

Drugs have been categorized under various product types like Mono, Combination and Mono/Combination.

Histone Deacetylase 6 (HDAC 6) inhibitors: Pipeline Development Activities

The report provides insights into different therapeutic candidates in phase II, I, preclinical and discovery stage. It also analyses Histone Deacetylase 6 (HDAC 6) inhibitors therapeutic drugs key players involved in developing key drugs.

Pipeline Development Activities

The report covers the detailed information of collaborations, acquisition and merger, licensing along with a thorough therapeutic assessment of emerging Histone Deacetylase 6 (HDAC 6) inhibitors drugs.

Histone Deacetylase 6 (HDAC 6) inhibitors Report Insights

- Histone Deacetylase 6 (HDAC 6) inhibitors Pipeline Analysis

- Therapeutic Assessment

- Unmet Needs

- Impact of Drugs

Histone Deacetylase 6 (HDAC 6) inhibitors Report Assessment

- Pipeline Product Profiles

- Therapeutic Assessment

- Pipeline Assessment

- Inactive drugs assessment

- Unmet Needs

Key Questions

Current Treatment Scenario and Emerging Therapies:

How many companies are developing Histone Deacetylase 6 (HDAC 6) inhibitors drugs?

How many Histone Deacetylase 6 (HDAC 6) inhibitors drugs are developed by each company?

How many emerging drugs are in mid-stage, and late-stage of development for the treatment of Histone Deacetylase 6 (HDAC 6) inhibitors?

What are the key collaborations (Industry–Industry, Industry–Academia), Mergers and acquisitions, licensing activities related to the Histone Deacetylase 6 (HDAC 6) inhibitors therapeutics?

What are the recent trends, drug types and novel technologies developed to overcome the limitation of existing therapies?

What are the clinical studies going on for Histone Deacetylase 6 (HDAC 6) inhibitors and their status?

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 Ricolinostat: Regenacy Pharmaceuticals

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Drug profiles in the detailed report.....

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CKD 504: Chong Kun Dang Pharmaceuticals

? Product Description

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Drug profiles in the detailed report.....

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