

# NAD Dependent Protein Deacetylase Sirtuin 1 - Pipeline Review, H1 2020

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## Abstracts

NAD Dependent Protein Deacetylase Sirtuin 1 - Pipeline Review, H1 2020

### SUMMARY

NAD Dependent Protein Deacetylase Sirtuin 1 (SIR2 Like Protein 1 or Sirtuin Type 1 or Regulatory Protein SIR2 Homolog 1 or SIRT1 or EC 3.5.1.) - NAD-dependent deacetylase sirtuin-1 is a protein encoded by the SIRT1 gene. It modulates chromatin function through deacetylation of histones and can promote alterations in the methylation of histones and DNA, leading to transcriptional repression. It is essential in skeletal muscle cell differentiation and in response to low nutrients mediates the inhibitory effect on skeletal myoblast differentiation which also involves 5'-AMP-activated protein kinase (AMPK) and nicotinamide phosphoribosyltransferase (NAMPT).

NAD Dependent Protein Deacetylase Sirtuin 1 (SIR2 Like Protein 1 or Sirtuin Type 1 or Regulatory Protein SIR2 Homolog 1 or SIRT1 or EC 3.5.1.) pipeline Target constitutes close to 10 molecules. Out of which approximately 5 molecules are developed by companies and remaining by the universities/institutes. The molecules developed by companies in Phase II and Preclinical stages are 3 and 2 respectively. Similarly, the universities portfolio in Preclinical and Discovery stages comprises 4 and 1 molecules, respectively. Report covers products from therapy areas Oncology, Gastrointestinal, Metabolic Disorders, Central Nervous System, Hematological Disorders, Infectious Disease and Respiratory which include indications Non Alcoholic Fatty Liver Disease (NAFLD), Non-Alcoholic Steatohepatitis (NASH), Obesity, Type 2 Diabetes, Bacterial Pneumonia, Chronic Myelocytic Leukemia (CML, Chronic Myeloid Leukemia), Chronic Obstructive Pulmonary Disease (COPD), Emphysema, Ewing Sarcoma, Fanconi Anemia, Hyperlipidemia, Peritonitis, Solid Tumor and Traumatic Nerve Injury.

The latest report NAD Dependent Protein Deacetylase Sirtuin 1 - Pipeline Review, H1 2020, outlays comprehensive information on the NAD Dependent Protein Deacetylase Sirtuin 1 (SIR2 Like Protein 1 or Sirtuin Type 1 or Regulatory Protein SIR2 Homolog 1 or SIRT1 or EC 3.5.1.) 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 NAD Dependent Protein Deacetylase Sirtuin 1 (SIR2 Like Protein 1 or Sirtuin Type 1 or Regulatory Protein SIR2 Homolog 1 or SIRT1 or EC 3.5.1.) 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 NAD Dependent Protein Deacetylase Sirtuin 1 (SIR2 Like Protein 1 or Sirtuin Type 1 or Regulatory Protein SIR2 Homolog 1 or SIRT1 or EC 3.5.1.)

The report reviews NAD Dependent Protein Deacetylase Sirtuin 1 (SIR2 Like Protein 1 or Sirtuin Type 1 or Regulatory Protein SIR2 Homolog 1 or SIRT1 or EC 3.5.1.) 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 NAD Dependent Protein Deacetylase

Sirtuin 1 (SIR2 Like Protein 1 or Sirtuin Type 1 or Regulatory Protein SIR2 Homolog 1 or SIRT1 or EC 3.5.1.) targeted therapeutics and enlists all their major and minor projects

The report assesses NAD Dependent Protein Deacetylase Sirtuin 1 (SIR2 Like Protein 1 or Sirtuin Type 1 or Regulatory Protein SIR2 Homolog 1 or SIRT1 or EC 3.5.1.) 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 NAD Dependent Protein Deacetylase Sirtuin 1 (SIR2 Like Protein 1 or Sirtuin Type 1 or Regulatory Protein SIR2 Homolog 1 or SIRT1 or EC 3.5.1.) 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 NAD Dependent Protein Deacetylase Sirtuin 1 (SIR2 Like Protein 1 or Sirtuin Type 1 or Regulatory Protein SIR2 Homolog 1 or SIRT1 or EC 3.5.1.)

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 NAD

Dependent Protein Deacetylase Sirtuin 1 (SIR2 Like Protein 1 or Sirtuin Type 1 or Regulatory Protein SIR2 Homolog 1 or SIRT1 or EC 3.5.1.) 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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GlaxoSmithKline Plc

Jyant Technologies Inc

NuSirt Biopharma Inc

NAD Dependent Protein Deacetylase Sirtuin 1 (SIR2 Like Protein 1 or Sirtuin Type 1 or Regulatory Protein SIR2 Homolog 1 or SIRT1 or EC 3.5.1.) - Drug Profiles

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### COMPANIES MENTIONED

GlaxoSmithKline Plc

Jyant Technologies Inc

NuSirt Biopharma Inc



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