Histone deacetylase (HDAC) inhibitors are compounds that modulate the function of histone deacetylase, which are divided into four classes. HDAC determines the acetylation status of histones and controls the regulation of gene expression, cell proliferation, and cell death. Histone deacetylases present lucrative targets and their inhibitors display wide range of epigenetic activities opening the doorway for therapeutic approaches to good number of health conditions, among others, involving central nervous system, cancers, diabetes.

TimTec collection of HDAC inhibitors gathers 1,700 compounds-analogs to known HDAC approved therapies across all classes. These are the structures with the same fragments, scaffolds, and the overall molecular similarity. ActiTarg-H compound pool is available for cherry-picking and is offered in custom formatting if you are interested in a subset. Structural files are available for preview prior to purchase – please inquire .

As a partial example, the following well-known molecules were included in ActiTarg-H design consideration: PCI-24781, PCI-34051, Erlotinib, CUDC-101, Entinostat, Trichostatin, LAQ 824, Panobinostat, Belinostat, Apicidin, Romidepsin, Vorinostat, Abexinostat, Valproic acid, Trichostatin A, Mocetinostat, Givinostat, Quisinostat, Sulforaphane, Pracinostat, hydroxamic acids, cyclic peptide mimic.

Reference:

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Noh H, Oh EY, et.al. Histone deacetylase-2 is a key regulator of diabetes- and transforming growth factor-beta1-induced renal injury. Am J Physiol Renal Physiol. 2009 Sep;297(3):F729-39. doi: 10.1152/ajprenal.00086.2009

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The list is incomplete

Related Products

ActiTarg-H is one of TimTec targeted libraries. Other targeted screening collections of interest are:

ActiTarg-G GPCR Ligands ActiTarg-K Kinase Modulators ActiTarg-P Protease Inhibitors ActiTarg-S
Serpins Inhibitors

ActiTarg-I
Potassium Channel Modulators

ActiTarg-N
Nuclear Receptor Ligands

ActiTarg-CNS
Central Nervous System Receptors Modulators Library