

Product Name : Crebinostat

Synonyms : Crebinostat

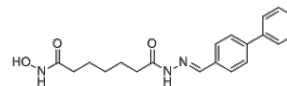
Cat No. : M10345

CAS Number : 1092061-61-4

Molecular Formula : C₂₀H₂₃N₃O₃

Formula Weight : 353.42

Chemical Name : Heptanoic acid, 7-(hydroxyamino)-7-oxo-, 2-([1,1'-biphenyl]-4-ylmethylene)hydrazide



Description : Crebinostat is a novel cognitive enhancer that inhibits class I HDAC/1/2/3 (IC₅₀=0.7/1.0/2.0 nM), class IIb HDAC6 (IC₅₀=9.3 nM) with weaker inhibition of the class I HDAC8 and no significant inhibition of the class IIa HDAC/4/5/7/9; potently induces acetylation of both histone H3 and histone H4 as well as enhanced the expression of the CREB target gene Egr1 in cultured mouse primary neurons; upregulates Bdnf and Gm, and downregulates Mapt (tau) gene expression-genes; brain penetrant.

Pathway : Cell Cycle/DNA Damage

Target : HDAC

Receptor : HDAC

Solubility : —

SMILES : O=C(NO)CCCCC(N/N=C/C1=CC=C(C2=CC=CC=C2)C=C1)=O

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Fass DM, et al. Neuropharmacology. 2013 Jan;64:81-96. | 2. Ghosh B, et al. Bioorg Med Chem Lett. 2016 Feb 15;26(4):1265-71.