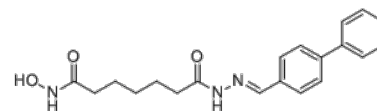


Product Name : Crebinostat
Cat. No. : PC-62704
CAS No. : 1092061-61-4
Molecular Formula : C₂₀H₂₃N₃O₃
Molecular Weight : 353.422
Target : HDAC
Solubility : 10 mM in DMSO



Biological Activity

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.

Crebinostat 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.

Crebinostat upregulates Bdnf and Grn, and downregulates Mapt (tau) gene expression-genes; brain penetrant.

References

Fass DM, et al. *Neuropharmacology*. 2013 Jan;64:81-96.

Ghosh B, et al. *Bioorg Med Chem Lett*. 2016 Feb 15;26(4):1265-71.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com