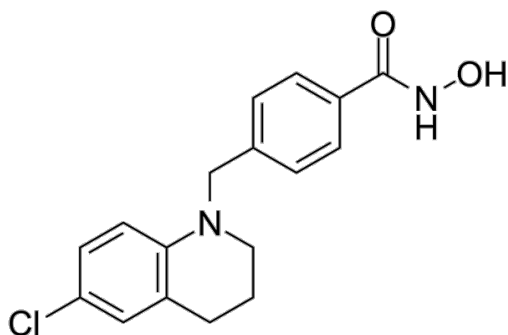


Product Data Sheet

Product Name: SW-100
Cat. No.: GC64968

Chemical Properties

Cas. No. 2126744-35-0
Formula C₁₇H₁₇ClN₂O₂ M.Wt 316.78
Solubility DMSO : ≥ 125 mg/mL (394.60 mM) Storage Store at -20°C
General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.
Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.
Structure



Protocol

HDAC1	HDAC2	HDAC3	HDAC4	HDAC5	HDAC6	HDAC7	HDAC8	HDAC9	HDAC10	HDAC11
5.23μM(IC ₅₀)	32.8μM(IC ₅₀)	29.5μM(IC ₅₀)	10.9μM(IC ₅₀)	4.07μM(IC ₅₀)	2.3nM(IC ₅₀)	4.55μM(IC ₅₀)	3.72μM(IC ₅₀)	3.46μM(IC ₅₀)	26.2μM(IC ₅₀)	5.72μM(IC ₅₀)

Background

SW-100, a selective histone deacetylase 6 (HDAC6) inhibitor with an IC₅₀ of 2.3 nM, shows at least 1000-fold selectivity for HDAC6 relative to all other HDAC isozymes. SW-100 displays a significantly improved ability to cross the blood-brain-barrier[1].

SW-100 (0.01-10 μM; 48 hours) shows obvious increase in the acetylated α-tubulin levels in a dose-dependent manner[1].

SW-100 (20 mg/kg; i.p.; twice a day for two days) ameliorates several memory and learning impairments including novel object recognition, temporal ordering, and coordinate and categorical spatial processing in mouse model of Fragile X syndrome[1].

[1]. Kozikowski AP, et al. Brain Penetrable Histone Deacetylase 6 Inhibitor SW-100 Ameliorates Memory and Learning Impairments in a Mouse Model of Fragile X Syndrome. ACS Chem Neurosci. 2019 Mar 20;10(3):1679-1695.

Caution: Product has not been fully validated for medical applications. For research use only.

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