

SAHA-OH

Chemical Properties

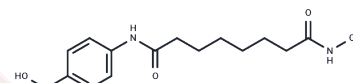
CAS No. : 2857098-30-5

Formula: C₁₅H₂₂N₂O₄

Molecular Weight: 294.35

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	SAHA-OH, a selective HDAC6 inhibitor with an IC ₅₀ of 23 nM, exhibits a 10- to 47-fold greater selectivity for HDAC6 over HDACs 1, 2, 3, and 8. It demonstrates anti-inflammatory effects and reduces macrophage apoptosis [1].
Targets(IC ₅₀)	Apoptosis,HDAC
In vitro	SAHA-OH, at concentrations ranging from 0.67 to 10.76 μM over a period of 51 hours, demonstrates inhibitory effects on bone marrow macrophages [1]. When applied to bone marrow-derived macrophages (BMMØs) at 0.01 μM for 3 hours, SAHA-OH significantly reduces the secretion of cytokines such as IL-6, TNFα, IFNβ, IL-1β, IL-10, MCP-1 (CCL2), and GROα (CXCL1) [1]. Additionally, a 10 μM SAHA-OH treatment for either 4 or 9 hours results in increased acetylation of cytoplasmic α-tubulin and nuclear histone H3 [1]. At dosages up to 30 μM, a 3-hour treatment with SAHA-OH effectively decreases apoptosis in macrophages and reduces death in B cells [1].
In vivo	SAHA-OH, administered through intraperitoneal injection at a dose of 50 mg/kg in a single dose, mitigates splenic damage and diminishes the levels of proinflammatory cytokines in plasma in a mouse model of LPS-induced endotoxemia [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3973 mL	16.9866 mL	33.9732 mL
5 mM	0.6795 mL	3.3973 mL	6.7946 mL
10 mM	0.3397 mL	1.6987 mL	3.3973 mL
50 mM	0.0679 mL	0.3397 mL	0.6795 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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