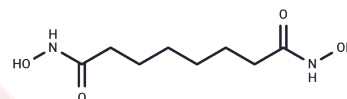


Suberoyl bis-hydroxamic acid

Chemical Properties

CAS No. :	38937-66-5
Formula:	C ₈ H ₁₆ N ₂ O ₄
Molecular Weight:	204.22
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Suberoyl bis-hydroxamic acid (SBHA) is a Histone deacetylase (HDAC) inhibitor. HDAC is required for transcriptional modulation, cell cycle regulation and development. It is an enzyme that deacetylates lysine residues on the N-terminal of the core histones.
Targets(IC50)	Apoptosis,HDAC
In vitro	In MEL cells, SBHA leads to the accumulation of acetylated H4, indicating the hydroxamic acid groups are involved in increasing potency and inhibition of HDAC activity. In Jurkat cells, SHBA inhibits the HDAC1 and HDAC3 activities with IC50 value of 0.25 and 0.3 μm respectively.

Solubility Information

Solubility	H ₂ O: 8.16 mg/mL (39.96 mM),Sonication is recommended. DMSO: 49 mg/mL (239.94 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (9.79 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.8967 mL	24.4834 mL	48.9668 mL
5 mM	0.9793 mL	4.8967 mL	9.7934 mL
10 mM	0.4897 mL	2.4483 mL	4.8967 mL
50 mM	0.0979 mL	0.4897 mL	0.9793 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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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481