Data Sheet (Cat.No.T21806)

TargetMol

HNHA

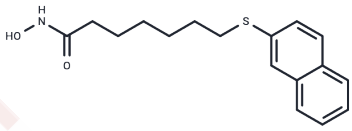
Chemical Properties

CAS No. : 926908-04-5

Formula: C17H21NO2S

Molecular Weight: 303.42

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	HNHA is an inhibitor of HDAC.
Targets(IC50)	MMP,HIF/HIF Prolyl-Hydroxylase,HDAC
In vitro	Treatment of cells with HNHA could elicite histone hyperacetylation resulting in an up-regulation of cell cycle arrest, p21 transcription, and an inhibition of HT1080 cell invasion. HNHA was able to inhibit in-vitro HDAC enzyme activity as well as proliferation of human fibrosarcoma cells (HT1080).
In vivo	Several HDAC inhibitors, including MS-27-275 and a hydroxyamide-based HDAC inhibitors such as SAHA have been investigated extensively and shown to inhibit tumor growth in vivo.

Solubility Information

Solubility	Ethanol: 15 mg/mL (49.44 mM),Sonication is recommended. DMSO: 15 mg/mL (49.44 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2958 mL	16.4788 mL	32.9576 mL
5 mM	0.6592 mL	3.2958 mL	6.5915 mL
10 mM	0.3296 mL	1.6479 mL	3.2958 mL
50 mM	0.0659 mL	0.3296 mL	0.6592 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.

Reference

Dong H K , Lee J , Kim K N , et al. Anti-tumor activity of N-hydroxy-7-(2-naphthylthio) heptanomide, a novel histone deacetylase inhibitor[J]. Biochemical & Biophysical Research Communications, 2007, 356(1):233-238.

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