Data Sheet (Cat.No.T36105)

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coumarin-SAHA

Chemical Properties

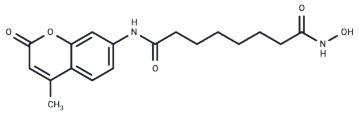
CAS No. : 1260635-77-5

Formula: C18H22N2O5

Molecular Weight: 346.383

Appearance: no data available

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



Biological Description

Description	Suberoylanilide hydroxamic acid (SAHA) is a class I and class II histone deacetylase (HDAC) inhibitor that binds directly to the catalytic site of the enzyme thereby blocking substrate access. [1] coumarin-Suberoylanilide hydroxamic acid (c-SAHA) is a SAHA derivative where the anilino cap" group is replaced by 7-amino-4-methylcoumarin to produce a fluorescent probe that competitively binds HDAC. [2] The fluorescence excitation and emission maxima of free c-SAHA is 325 and 400 nm

Solubility Information

Solubility	DMSO: 5 mg/mL DMF: 5 mg/mL (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.887 mL	14.435 mL	28.870 mL
5 mM	0.5774 mL	2.887 mL	5.774 mL
10 mM	0.2887 mL	1.4435 mL	2.887 mL
50 mM	0.0577 mL	0.2887 mL	0.5774 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.

Reference

Marks, P.A., and Breslow, R. Dimethyl sulfoxide to vorinostat: Development of this histone deacetylase inhibitor as an anticancer drug. Nat. Biotechnol. 25(1), 84-90 (2007).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481