

SAHA-BPyne

Chemical Properties

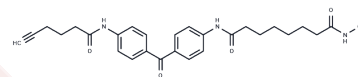
CAS No. : 930772-88-6

Formula: C₂₇H₃₁N₃O₅

Molecular Weight: 477.55

Appearance:

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. SAHA-BPyne is a SAHA derivative with a benzophenone crosslinker and an alkyne tag intended to be used for profiling HDAC activities in proteomes and live cells. Such terminal alkyne groups can be used in linking reactions, known as click chemistry, characterized by high dependability and specificity of azide-alkyne bioconjugation reactions. SAHA-BPyne labels HDAC complex proteins both in proteomes at 100 nM and in live cells at 500 nM and demonstrates an IC ₅₀ value of ~3 μM for inhibition of HDAC activity in HeLa cell nuclear lysates in an HDAC activity assay.
Targets(IC ₅₀)	Others

Solubility Information

Solubility	DMSO: 5 mg/mL (10.47 mM), Sonication is recommended. Methanol: 5 mg/mL (10.47 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.094 mL	10.4701 mL	20.9402 mL
5 mM	0.4188 mL	2.094 mL	4.188 mL
10 mM	0.2094 mL	1.047 mL	2.094 mL
50 mM	0.0419 mL	0.2094 mL	0.4188 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only. Not for Human or Veterinary or Therapeutic Use

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