

CRA-026440

Chemical Properties

CAS No. : 847460-34-8

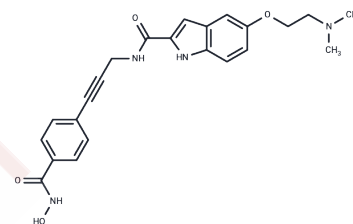
Formula: C₂₃H₂₄N₄O₄

Molecular Weight: 420.46

Store at low temperature

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	CRA-026440 is a highly potent HDAC inhibitor with inhibitory effects on HDAC1, HDAC2, HDAC3, HDAC6, HDAC8 and HDAC10 with Ki values of 4,14,11,15,7 and 20 nM, respectively. CRA-026440 has anti-tumor and anti-angiogenic activity and can be used to study colon cancer.
Targets(IC50)	Apoptosis,HDAC
In vitro	CRA-026440 exhibits anti-proliferative effects on HUVEC endothelial cells with a GI50 value of 1.41 μM[1]. In tumor cells, treatment with CRA-026440 (0.1-10 μM; 18 hours) leads to the accumulation of acetylated histones and acetylated microtubule proteins, thereby inhibiting tumor cell growth and inducing apoptosis[1]. CRA-026440 (0.1-10 μM; 5 days) inhibits ex vivo angiogenesis in a dose-dependent manner[1].
In vivo	Administered intravenously at a dose of 100 mg/kg daily for three consecutive days, CRA-026440 significantly reduces tumor growth in mice bearing HCT116 or U937 human tumor xenografts[1].

Solubility Information

Solubility	DMSO: 90 mg/mL (214.05 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	2.3783 mL	11.8917 mL	23.7835 mL
5 mM	0.4757 mL	2.3783 mL	4.7567 mL
10 mM	0.2378 mL	1.1892 mL	2.3783 mL
50 mM	0.0476 mL	0.2378 mL	0.4757 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

Cao ZA, et al. CRA-026440: a potent, broad-spectrum, hydroxamic histone deacetylase inhibitor with antiproliferative and antiangiogenic activity in vitro and in vivo. Mol Cancer Ther. 2006 Jul;5(7):1693-701.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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