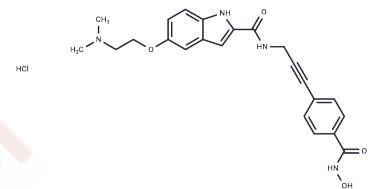


CRA-026440 hydrochloride

Chemical Properties

CAS No. :	847459-98-7
Formula:	C ₂₃ H ₂₅ ClN ₄ O ₄
Molecular Weight:	456.92
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 hydrochloride is a potent and broad-spectrum HDAC inhibitor. CRA-026440 hydrochloride exhibits Ki values against recombinant HDAC isoenzymes HDAC1, HDAC2, HDAC3, HDAC6, HDAC8, and HDAC10 are 4 nM, 14 nM, 11 nM, 15 nM, 7 nM, and 20 nM, respectively. CRA-026440 hydrochloride exhibits antitumor and antiangiogenic
Targets(IC50)	Apoptosis,HDAC
In vitro	CRA-026440 hydrochloride exhibits anti-proliferation effect on HUVEC endothelial cells with GI50 of 1.41 μM. CRA-026440 hydrochloride leads to the accumulation of acetylated histone and acetylated tubulin, thus inhibiting the growth of tumor cells and inducing cell apoptosis. CRA-026440 hydrochloride inhibits angiogenesis in vitro in a dose-dependent manner[1].
In vivo	CRA-026440 hydrochloride (100 mg/kg; intravenous injection; daily; three consecutive days) resulted in a significant decrease in tumor growth in mice carrying HCT116 or U937 human tumor xenografts[1].

Solubility Information

Solubility	DMSO: 50 mg/mL (109.43 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	2.1886 mL	10.9428 mL	21.8857 mL
5 mM	0.4377 mL	2.1886 mL	4.3771 mL
10 mM	0.2189 mL	1.0943 mL	2.1886 mL
50 mM	0.0438 mL	0.2189 mL	0.4377 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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