

LSD1/HDAC-IN-2

Chemical Properties

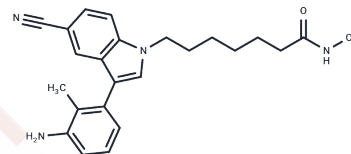
CAS No. : 2966782-82-9

Formula: C₂₃H₂₆N₄O₂

Molecular Weight: 390.48

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	LSD1/HDAC-IN-2 (Compound 20c) acts as an inhibitor targeting both LSD1 and several HDACs, specifically HDAC1, HDAC2, HDAC3, HDAC6, and HDAC8, with IC ₅₀ values of 39.0, 1.4, 1.0, 1.3, 2.9, and 16.0 nM, respectively. This compound effectively inhibits the proliferation of cancer cells, notably colorectal cancer cells. LSD1/HDAC-IN-2 induces cell cycle arrest at the G ₂ /M phase, inhibits cell migration, and triggers apoptosis in HCT-116 and HT-29 cells. Additionally, it demonstrates antitumor activity in mouse models without causing significant toxicity at a dose of 20 mg/kg.
Targets(IC ₅₀)	Apoptosis, Histone Demethylase, HDAC

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.561 mL	12.8048 mL	25.6095 mL
5 mM	0.5122 mL	2.561 mL	5.1219 mL
10 mM	0.2561 mL	1.2805 mL	2.561 mL
50 mM	0.0512 mL	0.2561 mL	0.5122 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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