

USP28-IN-3

Chemical Properties

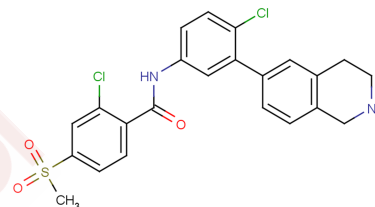
CAS No. : 2931509-14-5

Formula: C₂₃H₂₀Cl₂N₂O₃S

Molecular Weight: 475.39

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	USP28-IN-3 is a highly selective USP28 inhibitor with an IC ₅₀ value of 0.1 μM against USP28. USP28-IN-3 exhibits anticancer activity and inhibits USP2, USP7, USP8, USP9x, UCHL3, and UCHL5. USP28-IN-3 is cytotoxic to human colorectal and lung squamous carcinoma cells, inhibiting c-cells and c-neutralizing c-neutralizing c-neutralizing c-neutralizing c-neutralizing c-neutralizing c-neutralizing c-neutralizing c-cells through the ubiquitin-proteasome system. -proteasome system to dose-dependently downregulate cellular levels of c-Myc.
Targets(IC ₅₀)	DUB
In vitro	In human colorectal cancer cells HCT116 and Ls174T, USP28-IN-3 (20 μM-60 μM; 24 hours) dose-dependently down-regulated the cellular level of c-Myc[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1035 mL	10.5177 mL	21.0354 mL
5 mM	0.4207 mL	2.1035 mL	4.2071 mL
10 mM	0.2104 mL	1.0518 mL	2.1035 mL
50 mM	0.0421 mL	0.2104 mL	0.4207 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

Zhou D, et al. Structure-based discovery of potent USP28 inhibitors derived from Vismodegib. Eur J Med Chem. 2023 Jun 5;254:115369.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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