

USP28-IN-2

Chemical Properties

CAS No. : 2931509-11-2
 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-2 is a selective USP28 inhibitor (IC ₅₀ = 0.3 μM), demonstrating high specificity compared to USP2, USP7, USP8, USP9x, UCHL3, and UCHL5. This compound exhibits cytotoxic effects on cancer cells and induces the degradation of c-Myc via the ubiquitin-proteasome pathway. Additionally, USP28-IN-2 reduces ankyrin-1/2 levels in vitro and potentiates the responsiveness of colorectal cancer cells to Regorafenib [1].
Targets(IC50)	Others,DUB
In vitro	USP28-IN-2 (compound 9l) inhibits colony formation in human colorectal cancer cells HCT116 at 17.5 μM and Ls174T at 15 μM over 3 days and downregulates c-Myc levels at 20-80 μM within 24 hours by promoting its degradation via the ubiquitin-proteasome system (UPS). [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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481