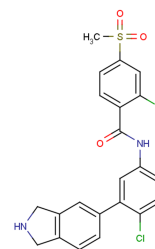


USP28-IN-4

Chemical Properties

| | |
|-------------------|--|
| CAS No. : | 2931509-15-6 |
| Formula: | C ₂₂ H ₁₈ Cl ₂ N ₂ O ₃ S |
| Molecular Weight: | 461.36 |
| Storage: | Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small> |



Biological Description

| | |
|----------------------------|--|
| Description | USP28-IN-4 is a potent USP28 inhibitor with an IC ₅₀ value of 0.04 μM against USP28. USP28-IN-4 exhibits anticancer activity and inhibits USP2, USP7, USP8, USP9x, UCHL3 and UCHL5. USP28-IN-4 is cytotoxic to human colorectal and lung squamous carcinoma cells and dose-dependently downregulates c-Myc cellular levels through the ubiquitin-proteasome system. -proteasome system to dose-dependently downregulate cellular levels of c-Myc. |
| Targets(IC ₅₀) | DUB |
| In vitro | USP28-IN-4 (12.5 μM, 15 μM; 3 days) induces cytotoxicity in human colorectal cancer and lung squamous cell carcinoma cells and significantly enhances the sensitivity of colorectal cancer cells to regorafenib[1]. |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|-----------|
| 1 mM | 2.1675 mL | 10.8375 mL | 21.675 mL |
| 5 mM | 0.4335 mL | 2.1675 mL | 4.335 mL |
| 10 mM | 0.2168 mL | 1.0838 mL | 2.1675 mL |
| 50 mM | 0.0434 mL | 0.2168 mL | 0.4335 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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