

USP5-IN-1

Chemical Properties

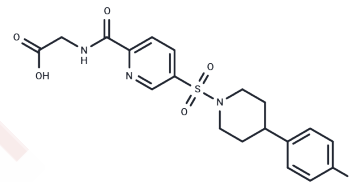
CAS No. :

Formula: C₁₉H₂₀ClN₃O₅S

Molecular Weight: 437.9

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	USP5-IN-1 (compound 64) is a potent deubiquitinase USP5 inhibitor that binds to the USP5 ZnF-UBD with a KD of 2.8 μM and is selective over nine proteins containing structurally similar ZnF-UBD domains. Additionally, USP5-IN-1 inhibits the USP5 catalytic cleavage of a di-ubiquitin substrate [1].
Targets(IC50)	DUB

Solubility Information

Solubility	DMSO: 72.5 mg/mL (165.56 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2836 mL	11.4181 mL	22.8363 mL
5 mM	0.4567 mL	2.2836 mL	4.5673 mL
10 mM	0.2284 mL	1.1418 mL	2.2836 mL
50 mM	0.0457 mL	0.2284 mL	0.4567 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

Mann MK, et al. Structure-Activity Relationship of USP5 Inhibitors [published correction appears in J Med Chem. 2022 Jan 13;65(1):889]. J Med Chem. 2021;64(20):15017-15036.

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