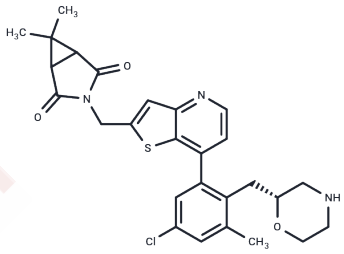
Data Sheet (Cat.No.T73234)

TargetMol

USP7-797

Chemical Properties



CAS No. : 2413944-70-2

Formula: C27H28ClN3O3S

Molecular Weight: 510.05

Storage: Keep away from direct sunlight
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	USP7-797 is a selective non-covalent active site USP7 inhibitor, inhibiting USP7 and ubiquitin binding, with anti-tumor, oral and high efficiency (IC50=0.44 nmol), it is effective on both wild-type and mutant p53 tumor cells, and can significantly inhibit the growth of tumor cells and induce apoptosis.
Targets(IC50)	DUB
In vitro	**Methods**: USP7-797 (0-1 μM) was used to treat p53 wild-type hematological cancer cell lines, and cell viability was determined. **Results**: USP7-797 was cytotoxic to p53 wild-type hematological cancer cell lines, with CC50 values of 0.2, 0.2, 0.4, and 0.1 μM for M07e, OCI-AML5, MOLM13, and MM.IS, respectively. **Methods**: USP7-797 (0-25 μM) was used to treat p53 mutant cancer cell lines, and cell viability was determined. **Results**: USP7-797 was cytotoxic to p53 mutant cancer cell lines, with CC50 values of 0.5, 0.2, and 0.2 μM for H526, LA-N-2, and SK-N-DZ, respectively. **Methods**: USP7-797 (0-2 μM) was used to treat p53 wild-type neuroblastoma cell lines and cell viability was measured. **Results**: USP7-797 was cytotoxic to p53 wild-type neuroblastoma cell lines, with CC50 values of 1.9, 0.6, and 0.5 μM for SH-SY5Y, CHP-134, and NB-1, respectively. [1]

Solubility Information

Solubility	DMSO: 60 mg/mL (117.64 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 3.3 mg/mL (6.47 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9606 mL	9.803 mL	19.6059 mL
5 mM	0.3921 mL	1.9606 mL	3.9212 mL
10 mM	0.1961 mL	0.9803 mL	1.9606 mL
50 mM	0.0392 mL	0.1961 mL	0.3921 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

Biannic, Berenger, et al. UBIQUITIN-SPECIFIC-PROCESSING PROTEASE 7 (USP7) MODULATORS AND USES THEREOF. US20200095260. 2019.