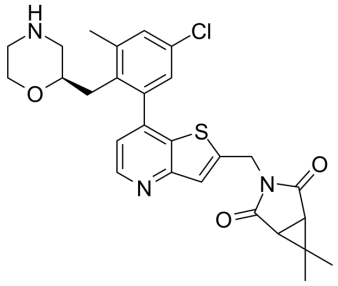
USP7-IN-7

Cat. No.:	HY-136910
CAS No.:	2413944-70-2
Molecular Formula:	$C_{27}H_{28}ClN_3O_3S$
Molecular Weight:	510.05
Target:	Deubiquitinase
Pathway:	Cell Cycle/DNA Damage
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 75 mg/mL (147.04 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.9606 mL	9.8030 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

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 3.75 mg/mL (7.35 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

USP7-IN-7 (compound 124) is a USP7 inhibitor with an IC_{50} value ⊠10 nM. USP7-IN-7 shows cytotoxicity against p53-mutant cancer cell lines, p53 wild-type blood cancer and neuroblastoma cell lines with low nanomolar values. USP7-IN-7 can be used for cancer research[1].

In Vitro

USP7-IN-7 (0-1 μM) shows cytotoxicity against p53 wild-type blood cancer cell lines with CC_{50} values of 0.2, 0.2, 0.4 and 0.1 μM for M07e, OCI-AML5, MOLM13 and MM.IS, respectively[1].

USP7-IN-7 (0-2 μM) shows cytotoxicity against p53 wild-type neuroblastoma cell lines with CC_{50} values of 1.9, 0.6 and 0.5 μM for SH-SY5Y, CHP-134 and NB-1, respectively[1].

USP7-IN-7 (0-25 μM) shows cytotoxicity against p53-mutant cancer cell lines with CC_{50} values of 0.5, 0.2 and 0.2 μM for H526, LA-N-2 and SK-N-DZ, respectively[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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

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