CST626

Cat. No.: HY-149924

Molecular Formula: $C_{61}H_{82}N_8O_9S$

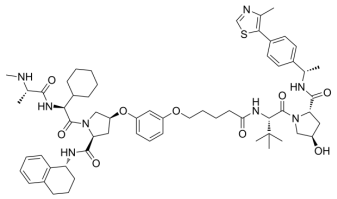
Molecular Weight: 1103.42

Target: PROTACs; IAP

Pathway: PROTAC; Apoptosis

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (90.63 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	0.9063 mL	4.5314 mL	9.0627 mL
	5 mM	0.1813 mL	0.9063 mL	1.8125 mL
	10 mM	0.0906 mL	0.4531 mL	0.9063 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: 2.5 mg/mL (2.27 mM); Clear solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 2.5 mg/mL (2.27 mM); Clear solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: 2.5 mg/mL (2.27 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

CST626 (Compound 9) is a pan-IAP degrader PROTAC. PROTAC pan-IAP degrader-1 degrades XIAP, cIAP1 and cIAP2 with DC_{50} s of 0.7, 2.4, and 6.2 nM in MM.1S cells, respectively[1].

In Vitro

CST626 (Compound 9) induces cIAP1, cIAP2 and XIAP degradation in a dose-dependent manner with DC_{50} values of 2.4 nM, 6.2 nM, and 0.7 nM, respectively[1].

CST626 (0-10 μM; 96 h) shows potent inhibition of cancer cell viability[1].

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

Western Blot Analysis[1]

Cell Line:	MM.1S cells
Concentration:	0.0001, 0.001, 0.01, 0.1 and 1 μM
Incubation Time:	16 h
Result:	Revealed DC_{50} values of 2.4 nM (cIAP1), 6.2 nM (cIAP2), and 0.7 nM (XIAP).

Cell Viability Assay[1]

Cell Line:	SUDHL6, MOLM13, NCI-H929, K562, DB, JJN3, HEL, SUDHL4 and RPMI-8826 cells
Concentration:	0.01, 0.04, 0.1, 0.4, 1, 4 and 10 μM
Incubation Time:	96 h
Result:	Inhibited cell viability with IC_{50}s of 0.0016, 0.0021, 0.0085, 0.42, 0.46, 1.14, 1.17, 1.69 and 2.54 μM against SUDHL6, MOLM13, NCI-H929, K562, DB, JJN3, HEL, SUDHL4 and RPMI-8826 cells, respectively.

REFERENCES

[1]. Ng YLD, et al. Heterobifunctional Ligase Recruiters Enable pan-Degradation of Inhibitor of Apoptosis Proteins. J Med Chem. 2023 Apr 13;66(7):4703-4733.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA