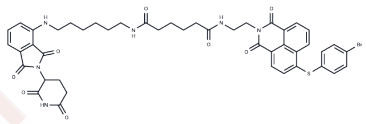
Data Sheet (Cat.No.T11975)

TargetMol

PROTAC Mcl1 degrader-1

Chemical Properties



CAS No. : 2163793-38-0

Formula: C45H45BrN6O8S

Molecular Weight: 909.84

Appearance: no data available

Storage: store at low temperature
Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	PROTAC Mcl1 degrader-1 is a Cereblon ligand-based targeted chimeric protein degrader (PROTAC), a selective Mcl-1 inhibitor. By hijacking the CRBN ubiquitin ligase to form a ternary complex with the target protein, it induces Mcl-1 ubiquitination. It can be used for cancer research.
Targets(IC50)	PROTACs
In vitro	PROTAC Mcl1 degrader-1 (Compound C3) induces ubiquitination of Mcl-1 and promotes its proteasomal degradation by binding the Mcl-1 inhibitor S1-6 (with μM range affinity) to the E3 ligase cereblon (CRBN) ligand, pomalidomide.PROTAC Mcl1 degrader-1 selectively targets Mcl-1, a member of the Bcl-2 family, with an IC50 of 078 μM. PROTAC Mcl1 degrader-1 selectively targets Mcl-1 (a member of the Bcl-2 family) with an IC50 of 0.78 μM, and also inhibits Bcl-2 with an IC50 of 0.54 μM. [1] PROTAC Mcl1 degrader-1 (0-10 μM; 0-24 hours) selectively reduces Mcl-1 and Bcl-2 protein levels in HeLa cells by a time- and concentration-dependent mechanism. [1] PROTAC Mcl1 degrader-1 (0-2 μM; 24 hours) exhibits cytotoxic effects on H23 cells. [1]

Solubility Information

Solubility	DMSO: 40 mg/mL (43.96 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.0991 mL	5.4955 mL	10.9909 mL
5 mM	0.2198 mL	1.0991 mL	2.1982 mL
10 mM	0.1099 mL	0.5495 mL	1.0991 mL
50 mM	0.022 mL	0.1099 mL	0.2198 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.

Reference

Wang Z, et al. Proteolysis Targeting Chimeras for the Selective Degradation of Mcl-1/Bcl-2 Derived from Nonselective Target Binding Ligands. J Med Chem. 2019 Aug 21.

Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481