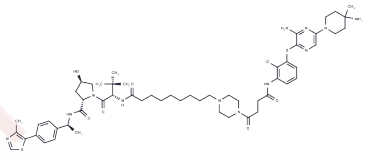
Data Sheet (Cat.No.T40121)

TargetMol

SHP2-D26

Chemical Properties



CAS No. : 2458219-65-1

Formula: C56H79ClN12O6S2

Molecular Weight: 1115.9

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	SHP2-D26 is a highly potent and effective SHP2 degrader that induces targeted SHP2 protein degradation through simultaneous binding to VHL-1 and SHP2, with degradation strictly dependent on neddylation and proteasome activity, thereby providing a powerful chemical biology tool for dissecting SHP2-driven signaling networks in cancer and immune regulation.
Targets(IC50)	Phosphatase,PROTACs
In vitro	In cellular assays utilizing KYSE520 and MV-4-11 cell lines, SHP2-D26 reduced SHP2 protein levels in a dose- and time-dependent manner with DC50 values of 6.0 nM and 2.6 nM respectively. Complete depletion was achieved by 8 hours at 100 nM. Functionally, the compound exhibited cytotoxicity against these cancer cell lines after a 4-day incubation with IC50 values of 0.66 μM and 0.99 nM [1].

Solubility Information

Solubility	DMSO: 65 mg/mL (58.25 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.8961 mL	4.4807 mL	8.9614 mL
5 mM	0.1792 mL	0.8961 mL	1.7923 mL
10 mM	0.0896 mL	0.4481 mL	0.8961 mL
50 mM	0.0179 mL	0.0896 mL	0.1792 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

Wang M, et al. Discovery of SHP2-D26 as a First, Potent, and Effective PROTAC Degrader of SHP2 Protein [published correction appears in J Med Chem. 2021 Jan 14;64(1):906-908]. J Med Chem. 2020;63(14):7510-7528.
Wang M, et al. Correction to "Discovery of SHP2-D26 as a First, Potent, and Effective PROTAC Degrader of SHP2 Protein". J Med Chem. 2021 Jan 14;64(1):906-908.