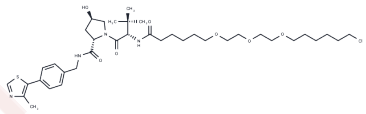
Data Sheet (Cat.No.T17911)

TargetMol

(S,R,S)-AHPC-C6-PEG3-C4-Cl

Chemical Properties



CAS No. : 1835705-55-9

Formula: C38H59ClN4O7S

Molecular Weight: 751.42

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	(S,R,S)-AHPC-C6-PEG3-C4-Cl is a small molecule HaloPROTAC incorporating the (S,R,S)-AHPC based VHL ligand and a 3-unit PEG linker, capable of inducing the degradation of GFP-HaloTag7 in cell-based assays[1].
Targets(IC50)	Others,E3 Ligase Ligand-Linker Conjugates,PROTACs
In vitro	The chemical compound '(S,R,S)-AHPC-C6-PEG3-C4-Cl' utilizes the cereblon ligand[1] and features a 6-2-2-6 linker, incorporating both hydrophobic and hydrophilic elements to achieve a balanced hydrophilicity/hydrophobicity in the resultant compounds. This compound forms the basis for developing PROTACs aimed at degrading the oncogenic tyrosine kinase BCR-ABL. It is engineered to attach to potent TKIs, specifically bosutinib and dasatinib, facilitating the degradation of c-ABL and BCR-ABL by exploiting either CRBN or VHL E3 ubiquitin ligase mechanisms[2].

Solubility Information

Solubility	DMSO: 100 mg/mL (133.08 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 (4.39 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	1.3308 mL	6.6541 mL	13.3081 mL
5 mM	0.2662 mL	1.3308 mL	2.6616 mL
10 mM	0.1331 mL	0.6654 mL	1.3308 mL
50 mM	0.0266 mL	0.1331 mL	0.2662 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

US 20170121321 A1
Lai AC, et al. Modular PROTAC Design for the Degradation of Oncogenic BCR-ABL. Angew Chem Int Ed Engl. 2016 Jan 11;55(2):807-10.