

(S,R,S)-AHPC-PEG2-C4-Cl

Chemical Properties

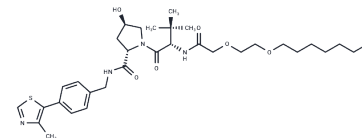
CAS No. : 1835705-57-1

Formula: C32H47ClN4O6S

Molecular Weight: 651.26

Appearance: no data available

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



Biological Description

Description	(S,R,S)-AHPC-PEG2-C4-Cl is a small molecule HaloPROTAC that incorporates the (S,R,S)-AHPC based VHL ligand and 2-unit PEG linker. (S,R,S)-AHPC-PEG2-C4-Cl is capable of inducing the degradation of GFP-HaloTag7 in cell-based assays[1].
Targets(IC50)	Others
In vitro	(S,R,S)-AHPC-PEG2-C4-Cl employs the VHL ligand to facilitate the development of PROTACs targeting the oncogenic tyrosine kinase, BCR-ABL, through the utilization of a 6-2-2 linker which incorporates both hydrophobic and hydrophilic elements to optimize the hybrid compounds' balance of hydrophobicity and hydrophilicity. Moreover, this compound can be conjugated with potent tyrosine kinase inhibitors (TKIs), specifically bosutinib and dasatinib, to promote the degradation of c-ABL and BCR-ABL by exploiting either CRBN or VHL E3 ubiquitin ligase mechanisms.

Solubility Information

Solubility	DMSO: 50 mg/mL (76.77 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5355 mL	7.6774 mL	15.3549 mL
5 mM	0.3071 mL	1.5355 mL	3.071 mL
10 mM	0.1535 mL	0.7677 mL	1.5355 mL
50 mM	0.0307 mL	0.1535 mL	0.3071 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

Craig Crews, et al. Proteolysis Targeting Chimera Compounds and Methods of Preparing and Using Same.
US20170121321A1.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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