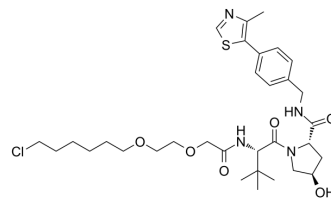


(S,R,S)-AHPC-PEG2-C4-Cl

Cat. No.:	HY-103607		
CAS No.:	1835705-57-1		
Molecular Formula:	C ₃₂ H ₄₇ ClN ₄ O ₆ S		
Molecular Weight:	651.26		
Target:	E3 Ligase Ligand-Linker Conjugates		
Pathway:	PROTAC		
Storage:	Pure form	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 50 mg/mL (76.77 mM)
 H₂O : 50 mg/mL (76.77 mM; Need ultrasonic)
 Ethanol : 50 mg/mL (76.77 mM; Need ultrasonic)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1 mg	5 mg	10 mg
	1 mM		1.5355 mL	7.6774 mL	15.3548 mL
	5 mM		0.3071 mL	1.5355 mL	3.0710 mL
	10 mM		0.1535 mL	0.7677 mL	1.5355 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

(S,R,S)-AHPC-PEG2-C4-Cl (VH032-PEG2-C4-Cl) is a conjugate of ligands for E3 and 13-atom-length linker. The connector of linker is Halogen group. (S,R,S)-AHPC-PEG2-C4-Cl incorporates the (S,R,S)-AHPC based VHL ligand and an alkyl/ether-based linker. (S,R,S)-AHPC-PEG2-C4-Cl is capable of inducing the degradation of GFP-HaloTag7 in cell-based assays^[1].

IC₅₀ & Target

VHL

In Vitro

(S,R,S)-AHPC-PEG2-C4-Cl uses the VHL ligand^[1]. The linkers contain a mixture of hydrophobic and hydrophilic moieties to balance the hydrophobicity/hydrophilicity of the resulting hybrid compounds. PROTACs that induce the degradation of an oncogenic tyrosine kinase, BCR-ABL has been developed. (S,R,S)-AHPC-PEG2-C4-Cl can be attached to potent TKIs (bosutinib and dasatinib) that mediate the degradation of c-ABL and BCR-ABL by hijacking either CRBN or VHL E3 ubiquitin ligase^[2].

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

REFERENCES

- [1]. Craig Crews, et al. Proteolysis Targeting Chimera Compounds and Methods of Preparing and Using Same. US20170121321A1.
- [2]. 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.
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Caution: Product has not been fully validated for medical applications. For research use only.

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