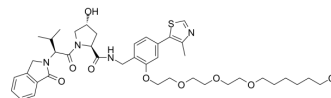


## VH285-PEG4-C4-Cl

Cat. No.:	HY-111997		
CAS No.:	1799506-07-2		
Molecular Formula:	C <sub>41</sub> H <sub>55</sub> ClN <sub>4</sub> O <sub>8</sub> S		
Molecular Weight:	799.42		
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 : 100 mg/mL (125.09 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM		1.2509 mL	6.2545 mL	12.5091 mL
		5 mM		0.2502 mL	1.2509 mL	2.5018 mL
10 mM			0.1251 mL	0.6255 mL	1.2509 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (3.13 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (3.13 mM); Suspended solution; Need ultrasonic					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (3.13 mM); Clear solution; Need ultrasonic					

### BIOLOGICAL ACTIVITY

Description	VH285-PEG4-C4-Cl (HaloPROTAC 3) is a conjugate of ligands for E3 and 16-atom-length linker. The connector of linker is Halogen group. VH285-PEG4-C4-Cl incorporates the VH285 based VHL ligand and an alkyl/ether-based linker. VH285-PEG4-C4-Cl is a highly potent and efficacious degrader of GFP-HaloTag7 with a DC <sub>50</sub> of 19 nM. VH285-PEG4-C4-Cl is able to induce 90 % degradation of GFP-Halotag at 625 nM. VH285-PEG4-C4-Cl binds to VHL with an IC <sub>50</sub> of 0.54 μM <sup>[1]</sup> .
IC <sub>50</sub> & Target	VHL

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**In Vitro**

Treatment with 500 nM VH285-PEG4-C4-Cl (HaloPROTAC 3) is able to induce nearly complete knockdown of both HaloTag7-ERK1 and HaloTag7-MEK1<sup>[1]</sup>.

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

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**REFERENCES**

[1]. Buckley DL, et al. HaloPROTACS: Use of Small Molecule PROTACs to Induce Degradation of HaloTag Fusion Proteins. ACS Chem Biol. 2015 Aug 21;10(8):1831-7.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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