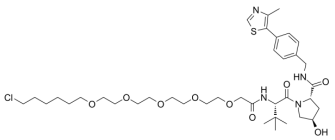
VH032-PEG5-C6-Cl

Cat. No.:	HY-112495
CAS No.:	1799506-06-1
Molecular Formula:	$C_{38}H_{59}ClN_4O_9S$
Molecular Weight:	783.41
Target:	E3 Ligase Ligand-Linker Conjugates
Pathway:	PROTAC
Storage:	-80°C, protect from light, stored under nitrogen



SOLVENT & SOLUBILITY

In Vitro

DMSO : 270 mg/mL (344.65 mM; Need ultrasonic)
Ethanol : 100 mg/mL (127.65 mM; Need ultrasonic)

Preparing Stock Solutions

Concentration \ Solvent \ Mass	1 mg	5 mg	10 mg
1 mM	1.2765 mL	6.3824 mL	12.7647 mL
5 mM	0.2553 mL	1.2765 mL	2.5529 mL
10 mM	0.1276 mL	0.6382 mL	1.2765 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: ≥ 5 mg/mL (6.38 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 5 mg/mL (6.38 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 5 mg/mL (6.38 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

VH032-PEG5-C6-Cl (HaloPROTAC 2) is a conjugate of ligands for E3 and 21-atom-length linker. The connector of linker is Halogen group. VH032-PEG5-C6-Cl incorporates the VH032 based VHL ligand and 5-unit PEG linker. VH032-PEG5-C6-Cl is capable of inducing the degradation of GFP-HaloTag7 in cell-based assays[1].

IC_{50} & Target

VHL

In Vitro

Treatment (24 hour) with VH032-PEG5-C6-Cl leads to nearly 70% degradation of GFP-Halotag7 at 2.5 μM[1].

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

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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