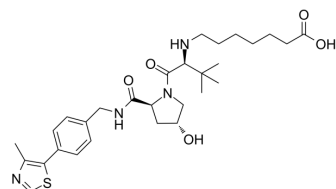


(S,R,S)-AHPC-C5-COOH

Cat. No.:	HY-136055												
CAS No.:	2267282-19-7												
Molecular Formula:	C ₂₉ H ₄₂ N ₄ O ₅ S												
Molecular Weight:	558.73												
Target:	E3 Ligase Ligand-Linker Conjugates; HIF/HIF Prolyl-Hydroxylase												
Pathway:	PROTAC; Metabolic Enzyme/Protease												
Storage:	<table border="0"> <tr> <td>Powder</td> <td>-20°C</td> <td>3 years</td> </tr> <tr> <td></td> <td>4°C</td> <td>2 years</td> </tr> <tr> <td>In solvent</td> <td>-80°C</td> <td>6 months</td> </tr> <tr> <td></td> <td>-20°C</td> <td>1 month</td> </tr> </table>	Powder	-20°C	3 years		4°C	2 years	In solvent	-80°C	6 months		-20°C	1 month
Powder	-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 (178.98 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
	Preparing Stock Solutions		10 mg	
	1 mM	1.7898 mL	8.9489 mL	17.8977 mL
	5 mM	0.3580 mL	1.7898 mL	3.5795 mL
	10 mM	0.1790 mL	0.8949 mL	1.7898 mL
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (4.47 mM); Clear solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (4.47 mM); Clear solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (4.47 mM); Clear solution; Need ultrasonic 			

BIOLOGICAL ACTIVITY

Description	(S,R,S)-AHPC-C5-COOH (VH032-C5-COOH) is a synthesized E3 ligase ligand-linker conjugate, contains the VH032 VHL-based ligand and a linker to form PROTACs. VH-032 is a selective and potent inhibitor of VHL/HIF-1α interaction with a K _d of 185 nM, has the potential for the study of anemia and ischemic diseases ^[1] .
IC₅₀ & Target	VHL
In Vitro	PROTACs contain two different ligands connected by a linker; one is a ligand for an E3 ubiquitin ligase and the other is for

the target protein.

PROTACs exploit the intracellular ubiquitin-proteasome system to selectively degrade target proteins. The von Hippel-Lindau tumor suppressor protein is the substrate-binding subunit of the VHL E3 ubiquitin ligase, it targets hydroxylated α subunit of HIFs for ubiquitination and subsequent proteasomal degradation.

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

REFERENCES

[1]. Soares P, et al. Group-Based Optimization of Potent and Cell-Active Inhibitors of the von Hippel-Lindau (VHL) E3 Ubiquitin Ligase: Structure-Activity Relationships Leading to the Chemical Probe (2S,4R)-1-((S)-2-(1-Cyanocyclopropanecarboxamido)-3,3-dimethyl

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA