

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

Chemical Properties

CAS No. : 2267282-19-7

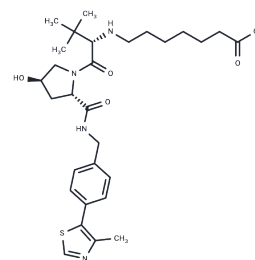
Formula: C₂₉H₄₂N₄O₅

Molecular Weight: 558.73

Keep away from direct sunlight

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

Actual storage temperature shall be subject to the COA.



Biological Description

Description	(S,R,S)-AHPC-C5-COOH (VH032-C5-COOH) is a synthesized conjugate for E3 ligase ligand-linker applications, combining the VH032 VHL-based ligand with a linker for PROTAC development. VH-032 is a selective and potent VHL/HIF-1 α interaction inhibitor with a dissociation constant (Kd) of 185 nM, offering potential in anemia and ischemic diseases research[1].
Targets(IC50)	Others,HIF/HIF Prolyl-Hydroxylase,E3 Ligase Ligand-Linker Conjugates
In vitro	PROTACs are bifunctional molecules consisting of two ligands linked together; one binds to an E3 ubiquitin ligase, and the other targets a specific protein. Through the utilization of the cell's ubiquitin-proteasome system, PROTACs achieve the selective degradation of target proteins. Notably, the von Hippel-Lindau (VHL) tumor suppressor protein functions as the substrate-binding component of the VHL E3 ubiquitin ligase, targeting the hydroxylated α subunit of hypoxia-inducible factors (HIFs) for ubiquitination and subsequent proteasomal degradation.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7898 mL	8.9489 mL	17.8977 mL
5 mM	0.358 mL	1.7898 mL	3.5795 mL
10 mM	0.179 mL	0.8949 mL	1.7898 mL
50 mM	0.0358 mL	0.179 mL	0.358 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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-dimethylbutanoyl)-4-hydroxy-N-(4-(4-methylthiazol-5-yl)benzyl)pyrrolidine-2-carboxamide (VH298). J Med Chem. 2018 Jan 25;61(2):599-618.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel: 781-999-4286 E_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481