
Product Data Sheet

Product Name: (S,R,S)-AHPC-C5-COOH

Cat. No.: GC65133

Chemical Properties

Cas. No. 2267282-19-7

Formula C₂₉H₄₂N₄O₅ M.Wt 558.73

Solubility Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure

Background

(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-1 α interaction with a K_d of 185 nM, has the potential for the study of anemia and ischemic diseases[1].

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.

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

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

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