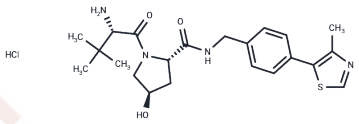
Data Sheet (Cat.No.T4207)

TargetMol

(S,R,S)-AHPC hydrochloride

Chemical Properties



CAS No. : 1448189-80-7

Formula: C22H31ClN4O3S

Molecular Weight: 467.03

Storage: Keep away from direct sunlight
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 hydrochloride (Protein degrader 1 hydrochloride) is a building block in the synthesis of proteolysis-targeting chimera technologies (PROTACs).
Targets(IC50)	Ligands for E3 Ligase
In vitro	Small molecule-induced protein degradation is an attractive strategy for the development of chemical probes.Protein degraders have the power to abrogate all of the functions of a drug target at once, including scaffolding functions which are difficult to target with small molecule inhibitors. A novel class of PROTACs that incorporate small molecule VHL ligands to successfully degrade HaloTag7 fusion proteins is developed. HaloPROTACs will inspire the development of future PROTACs with more drug-like properties. In HEK 293 cellsstably expressing GFP-HaloTag7,24 hour treatment with HaloPROTAC1 leads to less than 20% degradation, the longer HaloPROTAC2 leads to nearly 70% degradation of GFP-Halotag7 at 2.5 μM.HaloPROTACs containing protein degrader 1 leads to nearly 70% degradation of GFP-HaloTag7, when sufficiently long linkers are used

Solubility Information

Solubility	DMSO: 10 mM,Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (4.28 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1412 mL	10.706 mL	21.4119 mL
5 mM	0.4282 mL	2.1412 mL	4.2824 mL
10 mM	0.2141 mL	1.0706 mL	2.1412 mL
50 mM	0.0428 mL	0.2141 mL	0.4282 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

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.