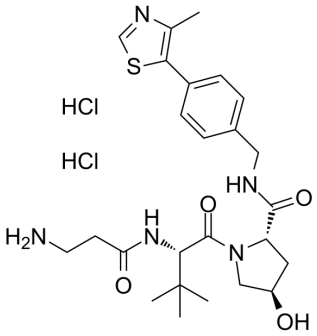
(S,R,S)-AHPC-C2-NH2 dihydrochloride

Cat. No.:	HY-136163
CAS No.:	2341796-73-2
Molecular Formula:	$C_{25}H_{37}Cl_2N_5O_4S$
Molecular Weight:	574.56
Target:	E3 Ligase Ligand-Linker Conjugates
Pathway:	PROTAC
Storage:	4°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (435.12 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	1.7405 mL	8.7023 mL	17.4046 mL
	5 mM	0.3481 mL	1.7405 mL	3.4809 mL
	10 mM	0.1740 mL	0.8702 mL	1.7405 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: ≥ 2.08 mg/mL (3.62 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (3.62 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (3.62 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

(S,R,S)-AHPC-C2-NH2 dihydrochloride incorporates a VHL ligand for the E3 ubiquitin ligase, and a PROTAC linker. (S,R,S)-AHPC-OH can be used in the synthesis of a series of PROTACs[1].

IC_{50} & 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.
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Jing Liu, et al. Tropomyosin receptor kinase (trk) degradation compounds and methods of use. WO2020038415A1.

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