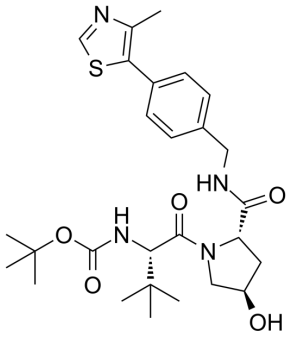
(S,R,S)-AHPC-Boc

Cat. No.:	HY-123109
CAS No.:	1448189-98-7
Molecular Formula:	$C_{27}H_{38}N_4O_5S$
Molecular Weight:	530.68
Target:	Ligands for E3 Ligase
Pathway:	PROTAC
Storage:	-20°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (188.44 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	1.8844 mL	9.4219 mL	18.8437 mL
5 mM	0.3769 mL	1.8844 mL	3.7687 mL
10 mM	0.1884 mL	0.9422 mL	1.8844 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: ≥ 2.5 mg/mL (4.71 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (4.71 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

(S,R,S)-AHPC-Boc (VH032-Boc) is a ligand used in the recruitment of the von Hippel-Lindau (VHL) protein. (S,R,S)-AHPC-Boc is used in PROTAC technology[1].

IC_{50} & Target

VHL

In Vitro

The VHL protein is a substrate recognition subunit of two ubiquitously expressed and biologically important Cullin RING E3 ubiquitin ligase complexes. VHL is one of the most popular E3 ligases being recruited by bifunctional PROTACs to induce ubiquitination and subsequent proteasomal degradation of a target protein.

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

REFERENCES

[1]. Zengerle M, et al. Selective Small Molecule Induced Degradation of the BET Bromodomain Protein BRD4. ACS Chem Biol. 2015;10(8):1770-1777.

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