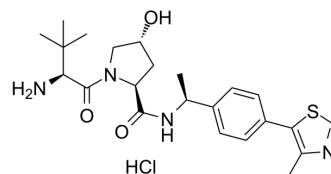


(S,R,S)-AHPC-Me hydrochloride

Cat. No.:	HY-42424
CAS No.:	1948273-03-7
Molecular Formula:	C ₂₃ H ₃₃ ClN ₄ O ₃ S
Molecular Weight:	481.05
Target:	Ligands for E3 Ligase
Pathway:	PROTAC
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

H₂O : 100 mg/mL (207.88 mM; Need ultrasonic)
 DMSO : ≥ 63 mg/mL (130.96 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.0788 mL	10.3939 mL	20.7879 mL
	5 mM	0.4158 mL	2.0788 mL	4.1576 mL
	10 mM	0.2079 mL	1.0394 mL	2.0788 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.08 mg/mL (4.32 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: 2.08 mg/mL (4.32 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (4.32 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

(S,R,S)-AHPC-Me hydrochloride (VHL ligand 2 hydrochloride) is the (S,R,S)-AHPC-based VHL ligand used in the recruitment of the von Hippel-Lindau (VHL) protein^[1]. (S,R,S)-AHPC-Me hydrochloride can be used to synthesize ARV-771, a von Hippel-Lindau (VHL) E3 ligase-based BET PROTAC degrader. ARV-771 potently degrades BET protein in castration-resistant prostate cancer (CRPC) cells with a DC₅₀ <1 nM^[2].

IC₅₀ & Target

VHL

REFERENCES

[1]. WO/2017/030814A1

[2]. Raina K, et al. PROTAC-induced BET protein degradation as a therapy for castration-resistant prostate cancer. Proc Natl Acad Sci U S A. 2016 Jun 28;113(26):7124-9.

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

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