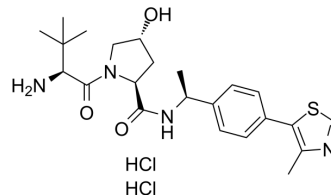


(S,R,S)-AHPC-Me dihydrochloride

Cat. No.:	HY-42424A
CAS No.:	2504950-56-3
Molecular Formula:	C ₂₃ H ₃₄ Cl ₂ N ₄ O ₃ S
Molecular Weight:	517.51
Target:	Ligands for E3 Ligase
Pathway:	PROTAC
Storage:	4°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 (193.23 mM; Need ultrasonic)
DMSO : 50 mg/mL (96.62 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		Concentration	1 mg	5 mg	10 mg
	1 mM		1.9323 mL	9.6616 mL	19.3233 mL
	5 mM		0.3865 mL	1.9323 mL	3.8647 mL
	10 mM		0.1932 mL	0.9662 mL	1.9323 mL

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

In Vivo

- Add each solvent one by one: PBS
Solubility: 100 mg/mL (193.23 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 5 mg/mL (9.66 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 5 mg/mL (9.66 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 5 mg/mL (9.66 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

(S,R,S)-AHPC-Me dihydrochloride (VHL ligand 2 dihydrochloride) 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 dihydrochloride 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]. 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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