# (S,S,S)-AHPC hydrochloride

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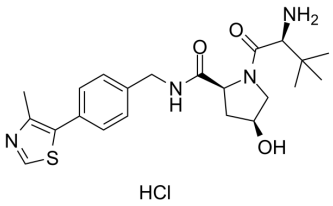
|---|---|
| **Cat. No.:** | HY-125845A |
| **CAS No.:** | 2115897-23-7 |
| **Molecular Formula:** | $C_{22}H_{31}ClN_4O_3S$ |
| **Molecular Weight:** | 467.02 |
| **Target:** | Ligands for E3 Ligase |
| **Pathway:** | PROTAC |
| **Storage:** | -20°C, stored under nitrogen, away from moisture<br>* In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen, away from moisture) |




## SOLVENT & SOLUBILITY

**In Vitro**

$H_2O$ : 100 mg/mL (214.12 mM; Need ultrasonic)
DMSO : 62.5 mg/mL (133.83 mM; Need ultrasonic)

| Preparing Stock Solutions | Mass / Solvent / Concentration | 1 mg | 5 mg | 10 mg |
|---|---|---|---|---|
| | 1 mM | 2.1412 mL | 10.7062 mL | 21.4124 mL |
| | 5 mM | 0.4282 mL | 2.1412 mL | 4.2825 mL |
| | 10 mM | 0.2141 mL | 1.0706 mL | 2.1412 mL |

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

**In Vivo**

1. Add each solvent one by one: PBS
   Solubility: 100 mg/mL (214.12 mM); Clear solution; Need ultrasonic and warming and heat to 60°C
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (5.35 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.08 mg/mL (4.45 mM); Clear solution
4. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (4.45 mM); Clear solution

## BIOLOGICAL ACTIVITY

**Description**

(S,S,S)-AHPC hydrochloride is a von Hippel-Lindau (VHL) amino building block. (S,S,S)-AHPC (Compound 27) is a ligand used as a negative control for (S,R,S)-AHPC. (S,R,S)-AHPC is the VH032-based VHL ligand used in the recruitment of the VHL protein[1].

**$IC_{50}$ & Target**

VHL

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| **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 Proteolysis-targeting chimeras (PROTACs) to induce ubiquitination and subsequent proteasomal degradation of a target protein.<br>MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

## CUSTOMER VALIDATION

- J Med Chem. 2023 Jul 14.

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## REFERENCES

[1]. Crew AP, et al. Identification and Characterization of Von Hippel-Lindau-Recruiting Proteolysis Targeting Chimeras (PROTACs) of TANK-Binding Kinase 1. J Med Chem. 2018 Jan 25;61(2):583-598.



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