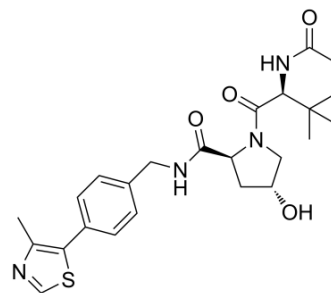


## VH032

|                           |  |
|---------------------------|--|
| <b>Cat. No.:</b>          | HY-120217  |
| <b>CAS No.:</b>           | 1448188-62-2   |
| <b>Molecular Formula:</b> | C <sub>24</sub> H <sub>32</sub> N <sub>4</sub> O <sub>4</sub> S  |
| <b>Molecular Weight:</b>  | 472.6  |
| <b>Target:</b>            | Ligand for E3 Ligase   |
| <b>Pathway:</b>           | PROTAC   |
| <b>Storage:</b>           | -20°C, sealed storage, away from moisture<br>* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture) |



## SOLVENT & SOLUBILITY

|   |   |                          |           |            |            |       |
|---|---|--------------------------|-----------|------------|------------|-------|
| <b>In Vitro</b>   | DMSO : 200 mg/mL (423.19 mM; Need ultrasonic)   |                          |           |            |            |       |
|   |   | Solvent<br>Concentration | Mass      | 1 mg       | 5 mg       | 10 mg |
|   | <b>Preparing Stock Solutions</b>  | 1 mM                     | 2.1160 mL | 10.5798 mL | 21.1595 mL |       |
|   |   | 5 mM                     | 0.4232 mL | 2.1160 mL  | 4.2319 mL  |       |
|   |   | 10 mM                    | 0.2116 mL | 1.0580 mL  | 2.1160 mL  |       |
| Please refer to the solubility information to select the appropriate solvent. |   |                          |           |            |            |       |
| <b>In Vivo</b>  | <ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline<br/>Solubility: ≥ 5 mg/mL (10.58 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline)<br/>Solubility: ≥ 5 mg/mL (10.58 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil<br/>Solubility: ≥ 5 mg/mL (10.58 mM); Clear solution</li> </ol> |                          |           |            |            |       |

## BIOLOGICAL ACTIVITY

|                                     |  |
|-------------------------------------|--|
| <b>Description</b>                  | VH032 is a VHL ligand used in the recruitment of the von Hippel-Lindau (VHL) protein. VH032 is a VHL/HIF-1α interaction inhibitor with a K <sub>d</sub> [1][2][3].   |
| <b>IC<sub>50</sub> &amp; Target</b> | VHL  |
| <b>In Vitro</b>                     | 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 <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

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## REFERENCES

- [1]. Michael Zengerle, et al. Selective Small Molecule Induced Degradation of the BET Bromodomain Protein BRD4. *ACS Chem Biol.* 2015 Aug 21;10(8):1770-7.
- [2]. Carles Galdeano, et al. Structure-guided design and optimization of small molecules targeting the protein-protein interaction between the von Hippel-Lindau (VHL) E3 ubiquitin ligase and the hypoxia inducible factor (HIF) alpha subunit with in vitro nanomolar affinities. *J Med Chem.* 2014 Oct 23;57(20):8657-63.
- [3]. Kwok-Ho Chan, et al. Impact of Target Warhead and Linkage Vector on Inducing Protein Degradation: Comparison of Bromodomain and Extra-Terminal (BET) Degraders Derived from Triazolodiazepine (JQ1) and Tetrahydroquinoline (I-BET726) BET Inhibitor Scaffolds. *J Med Chem.* 2018 Jan 25;61(2):504-513.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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