

Homo-PROTAC pVHL30 degrader 1

Cat. No.:	HY-111593
CAS No.:	2244684-49-7
Molecular Formula:	C ₅₈ H ₈₂ N ₈ O ₁₄ S ₂
Molecular Weight:	1179.45
Target:	PROTAC
Pathway:	PROTAC
Storage:	4°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro	DMSO : ≥ 150 mg/mL (127.18 mM) * "≥" means soluble, but saturation unknown.																	
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent Concentration</th> <th>Mass</th> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td>1 mM</td> <td>0.8479 mL</td> <td>4.2393 mL</td> <td>8.4785 mL</td> </tr> <tr> <td>5 mM</td> <td>0.1696 mL</td> <td>0.8479 mL</td> <td>1.6957 mL</td> </tr> <tr> <td>10 mM</td> <td>0.0848 mL</td> <td>0.4239 mL</td> <td>0.8479 mL</td> </tr> </tbody> </table>	Solvent Concentration	Mass	1 mg	5 mg	10 mg	1 mM	0.8479 mL	4.2393 mL	8.4785 mL	5 mM	0.1696 mL	0.8479 mL	1.6957 mL	10 mM	0.0848 mL	0.4239 mL	0.8479 mL
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Preparing Stock Solutions																		
Please refer to the solubility information to select the appropriate solvent.																		
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (2.12 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (2.12 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (2.12 mM); Clear solution 																	

BIOLOGICAL ACTIVITY

Description	Homo-PROTAC pVHL30 degrader 1 is a potent pVHL30 degrader based on PROTAC ^[1] .
IC ₅₀ & Target	VHL
In Vitro	Homo-PROTAC pVHL30 degrader 1 dimerizes von Hippel-Lindau (VHL) with high avidity in vitro and induces potent, rapid and proteasome-dependent self-degradation of VHL in different cell lines, in a highly isoform-selective fashion and without triggering a hypoxic response ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Maniaci C, et al. Homo-PROTACs: bivalent small-molecule dimerizers of the VHL E3 ubiquitin ligase to induce self-degradation. Nat Commun. 2017 Oct 10;8(1):830.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA