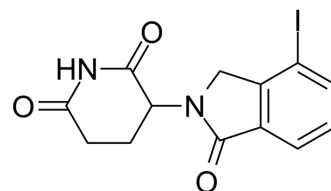


## Lenalidomide-I

<b>Cat. No.:</b>	HY-131318		
<b>CAS No.:</b>	2207541-30-6		
<b>Molecular Formula:</b>	C <sub>13</sub> H <sub>11</sub> IN <sub>2</sub> O <sub>3</sub>		
<b>Molecular Weight:</b>	370.14		
<b>Target:</b>	Ligands for E3 Ligase		
<b>Pathway:</b>	PROTAC		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 25 mg/mL (67.54 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	2.7017 mL	13.5084 mL	27.0168 mL
		5 mM	0.5403 mL	2.7017 mL	5.4034 mL
10 mM		0.2702 mL	1.3508 mL	2.7017 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 Solubility: 2.5 mg/mL (6.75 mM); Suspended solution; Need ultrasonic</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (6.75 mM); Clear solution</li> </ol>				

### BIOLOGICAL ACTIVITY

<b>Description</b>	Lenalidomide-I (Compound 72), an analog of cereblon (CRBN) ligand Lenalidomide for E3 ubiquitin ligase, is used in the recruitment of CRBN protein. Lenalidomide-I can be connected to the ligand for protein by a linker to form PROTACs, such as the PROTAC BET degrader QCA570 (HY-112609) <sup>[1]</sup> .
<b>In Vitro</b>	Lenalidomide-I can be connected to the ligand for protein by a linker to form PROTACs. PROTACs are inducers of ubiquitination-mediated degradation of cancer-promoting proteins <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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[1]. Qin C, et, al. Discovery of QCA570 as an Exceptionally Potent and Efficacious Proteolysis Targeting Chimera (PROTAC) Degradar of the Bromodomain and Extra-Terminal (BET) Proteins Capable of Inducing Complete and Durable Tumor Regression. J Med Chem. 2018

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

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