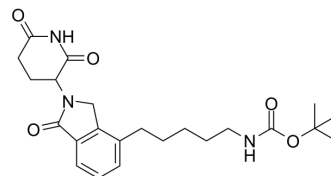


## Lenalidomide-C5-amido-Boc

<b>Cat. No.:</b>	HY-132856
<b>CAS No.:</b>	2138441-25-3
<b>Molecular Formula:</b>	C <sub>23</sub> H <sub>31</sub> N <sub>3</sub> O <sub>5</sub>
<b>Molecular Weight:</b>	429.51
<b>Target:</b>	E3 Ligase Ligand-Linker Conjugates
<b>Pathway:</b>	PROTAC
<b>Storage:</b>	-20°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 90 mg/mL (209.54 mM; Need ultrasonic)																					
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent</th> <th rowspan="2">Mass</th> <th colspan="3">Concentration</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Preparing Stock Solutions</td> <td>1 mM</td> <td>2.3282 mL</td> <td>11.6412 mL</td> <td>23.2823 mL</td> </tr> <tr> <td>5 mM</td> <td>0.4656 mL</td> <td>2.3282 mL</td> <td>4.6565 mL</td> </tr> <tr> <td>10 mM</td> <td>0.2328 mL</td> <td>1.1641 mL</td> <td>2.3282 mL</td> </tr> </tbody> </table>	Solvent	Mass	Concentration			1 mg	5 mg	10 mg	Preparing Stock Solutions	1 mM	2.3282 mL	11.6412 mL	23.2823 mL	5 mM	0.4656 mL	2.3282 mL	4.6565 mL	10 mM	0.2328 mL	1.1641 mL	2.3282 mL
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	Please refer to the solubility information to select the appropriate solvent.																					
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.25 mg/mL (5.24 mM); Clear solution																					

### BIOLOGICAL ACTIVITY

<b>Description</b>	Lenalidomide-C5-amido-Boc is the Lenalidomide-based Cereblon ligand used in the recruitment of CRBN protein. Lenalidomide-C5-amido-Boc can be connected to the ligand for protein by a linker to form PROTAC <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	Cereblon

### REFERENCES

[1]. Wang, Shaomeng, et al. Preparation of phthalimide-based compounds as monofunctional intermediates for ligand-dependent target protein degradation. World Intellectual Property Organization, WO2017176958 A1 2017-10-12.

[2]. Robbins, Daniel, et al. WBifunctional compounds for degrading BTK via ubiquitin proteasome pathway. World Intellectual Property Organization, WO2021091575 A1 2021-05-14.

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

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