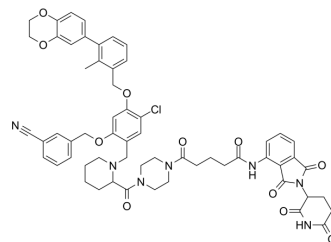


## PROTAC PD-1/PD-L1 degrader-1

<b>Cat. No.:</b>	HY-131183
<b>CAS No.:</b>	2447066-37-5
<b>Molecular Formula:</b>	C <sub>59</sub> H <sub>58</sub> ClN <sub>7</sub> O <sub>11</sub>
<b>Molecular Weight:</b>	1076.59
<b>Target:</b>	PROTACs; PD-1/PD-L1
<b>Pathway:</b>	PROTAC; Immunology/Inflammation
<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 : 210 mg/mL (195.06 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	<b>Preparing Stock Solutions</b>		1 mg	5 mg	10 mg
		1 mM	0.9289 mL	4.6443 mL	9.2886 mL
5 mM		0.1858 mL	0.9289 mL	1.8577 mL	
	10 mM	0.0929 mL	0.4644 mL	0.9289 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: ≥ 1.4 mg/mL (1.30 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: 1.4 mg/mL (1.30 mM); Suspended solution; Need ultrasonic</li> </ol>				

### BIOLOGICAL ACTIVITY

<b>Description</b>	PROTAC PD-1/PD-L1 degrader-1, a PD-1/PD-L1 PROTAC based on Cereblon E3 ligand, inhibits PD-1/PD-L1 interaction with an IC <sub>50</sub> of 39.2 nM. PROTAC PD-1/PD-L1 degrader-1 significantly restores the immunity repressed in a co-culture model of Hep3B/OS-8/hPD-L1 and CD3 T cells. PROTAC PD-1/PD-L1 degrader-1 moderately reduces the protein levels of PD-L1 in a lysosome-dependent manner <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	Cereblon
<b>In Vitro</b>	<p>PROTAC PD-1/PD-L1 degrader-1 (compound p22) reduces cell surface PD-L1 expression for more than 14%<sup>[1]</sup>.</p> <p>PROTAC PD-1/PD-L1 degrader-1 (1-10 μM; 24 hours) reduces PD-L1 expression in a dose-dependent manner by 21% and 35% at 1 μM and 10 μM, respectively<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

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#### Western Blot Analysis<sup>[1]</sup>

Cell Line:	MDA-MB-231 cells
Concentration:	1-10 $\mu$ M
Incubation Time:	24 hours
Result:	Reduced PD-L1 expression in a dose-dependent manner by 21% and 35% at 1 $\mu$ M and 10 $\mu$ M, respectively.

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#### REFERENCES

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[1]. Cheng B, Ren Y, Cao H, Chen J. Discovery of novel resorcinol diphenyl ether-based PROTAC-like molecules as dual inhibitors and degraders of PD-L1. Eur J Med Chem. 2020;199:112377.

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

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