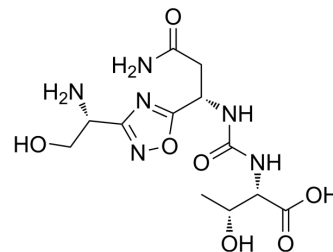


## CA-170

<b>Cat. No.:</b>	HY-101093		
<b>CAS No.:</b>	1673534-76-3		
<b>Molecular Formula:</b>	C <sub>12</sub> H <sub>20</sub> N <sub>6</sub> O <sub>7</sub>		
<b>Molecular Weight:</b>	360.32		
<b>Target:</b>	PD-1/PD-L1		
<b>Pathway:</b>	Immunology/Inflammation		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 28.5 mg/mL (79.10 mM; Need ultrasonic and warming)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	2.7753 mL	13.8766 mL	27.7531 mL
		5 mM	0.5551 mL	2.7753 mL	5.5506 mL
10 mM		0.2775 mL	1.3877 mL	2.7753 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: 5% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 50% saline Solubility: ≥ 2.5 mg/mL (6.94 mM); Clear solution</li> <li>Add each solvent one by one: 5% DMSO &gt;&gt; 95% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.94 mM); Clear solution</li> <li>Add each solvent one by one: 1% DMSO &gt;&gt; 99% saline Solubility: ≥ 0.5 mg/mL (1.39 mM); Clear solution</li> </ol>				

### BIOLOGICAL ACTIVITY

<b>Description</b>	CA-170 is an orally delivered dual inhibitor of VISTA and PD-L1. CA-170 exhibits potent rescue of proliferation and effector functions of T cells inhibited by PD-L1/L2 and VISTA with selectivity over other immune checkpoint proteins as well as a broad panel of receptors and enzymes <sup>[1][2]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	PD-1 <sup>[1]</sup>
<b>In Vitro</b>	CA-170 exhibits potent functional activity in rescuing T-cell proliferation and effector functions, while showing selectivity

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against other immune checkpoint proteins as well as in a broad panel of receptors and enzymes<sup>[2]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## CUSTOMER VALIDATION

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- Molecules. 2019 Aug 1;24(15):2804.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

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[1]. Pottayil Govindan Nair Sasikumar, et al. 1,2,4-oxadiazole derivatives as immunomodulators. WO2015033299A1.

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

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