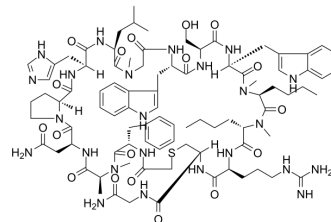


## PD-1/PD-L1-IN 3

<b>Cat. No.:</b>	HY-103048
<b>CAS No.:</b>	1629654-95-0
<b>Molecular Formula:</b>	C <sub>89</sub> H <sub>126</sub> N <sub>24</sub> O <sub>18</sub> S
<b>Molecular Weight:</b>	1852.17
<b>Sequence Shortening:</b>	Maa-FANPHL-Sar-WSW-Nle-Nle-RCG (Disulfide bridge: Maa1-Cys15)
<b>Target:</b>	PD-1/PD-L1
<b>Pathway:</b>	Immunology/Inflammation
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	PD-1/PD-L1-IN 3, a macrocyclic peptide, is a potent and selective inhibitor of the PD-1/PD-L1 and CD80/PD-L1 interactions extracted from patent WO2014151634A1, compound No.1. PD-1/PD-L1-IN 3 interferes with PD-L1 binding to PD-1 and CD80 by binding to PD-L1, with IC <sub>50</sub> s of 5.60 nM and 7.04 nM, respectively. PD-1/PD-L1-IN 3 can be used for the research of various diseases, including cancer and infectious diseases <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	IC <sub>50</sub> : 5.60 nM (PD-1/PD-L1); 7.04 nM (CD80/PD-L1) <sup>[1]</sup>
<b>In Vitro</b>	<p>PD-1/PD-L1-IN 3 (0.1 nM-10 μM) inhibits the binding of PD-1 and CD80 to PD-L1, with IC<sub>50</sub>s of 5.60 nM and 7.04 nM<sup>[1]</sup>.</p> <p>PD-1/PD-L1-IN 3 blocks the binding of recombinant PD-L1-Ig to Jurkat-PD-1 cells, and also block binding of recombinant PD-1-Ig to either L2987 or LK35.2-hPD-L1, with IC<sub>50</sub>s of 26 nM, 12 nM, and 3.5 nM, respectively<sup>[1]</sup>.</p> <p>PD-1/PD-L1-IN 3 (0.001-100 μM) promotes IFN secretion by CMV-specific T cells in a dose-dependent manner, with an EC<sub>50</sub> of 400 nM<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

### REFERENCES

[1]. MILLER, Michael Matthew, et al. Macrocyclic inhibitors of the pd-1/pd-l1 and cd80(b7-1)/pd-l1 protein/protein interactions. WO2014151634A1.

**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