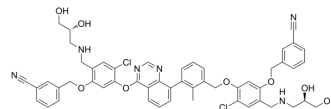


## PD-1/PD-L1 antagonist 1

Cat. No.:	HY-158052
Molecular Formula:	C <sub>52</sub> H <sub>48</sub> Cl <sub>2</sub> N <sub>6</sub> O <sub>8</sub>
Molecular Weight:	955.88
Target:	PD-1/PD-L1
Pathway:	Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	PD-1/PD-L1 antagonist 1 (Compound A5) is an antagonist for programmed cell death-1 (PD-1) and programmed cell death ligand-1 (PD-L1) interaction, with an IC <sub>50</sub> of 23.78 nM <sup>[1]</sup> .								
<b>IC<sub>50</sub> &amp; Target</b>	23.78 nM (PD-1/PD-L1 interaction)								
<b>In Vitro</b>	<p>PD-1/PD-L1 antagonist 1 (0-3 μM) dose-dependently inhibits PD-1 and PD-L1 interaction in a co-system of Jurkat-NFAT-PD-1 cells and Hep3B-OS8-hPD-L1 cells, exhibits no significant cytotoxicity in Jurkat cells with a safe dose of 3.3 μM<sup>[1]</sup>. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Cytotoxicity Assay<sup>[1]</sup></p> <table border="1"> <tr> <td>Cell Line:</td> <td>Jurkat</td> </tr> <tr> <td>Concentration:</td> <td>0-30 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>48 h</td> </tr> <tr> <td>Result:</td> <td>Maintained the cell viability with concentration less than 3.3 μM. Reduced cell viability at 10 and 30 μM.</td> </tr> </table>	Cell Line:	Jurkat	Concentration:	0-30 μM	Incubation Time:	48 h	Result:	Maintained the cell viability with concentration less than 3.3 μM. Reduced cell viability at 10 and 30 μM.
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Concentration:	0-30 μM								
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Result:	Maintained the cell viability with concentration less than 3.3 μM. Reduced cell viability at 10 and 30 μM.								

### REFERENCES

[1]. Wu X, et al. Design, Synthesis, and Evaluation of 8-(o-Tolyl) quinazoline Derivatives as Small-Molecule PD-1/PD-L1 Antagonists[J]. ACS Medicinal Chemistry Letters, 2024.

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

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