



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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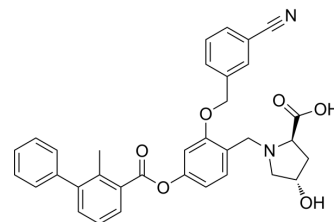
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## PD-1/PD-L1-IN-44

<b>Cat. No.:</b>	HY-161518
<b>Molecular Formula:</b>	C <sub>34</sub> H <sub>30</sub> N <sub>2</sub> O <sub>6</sub>
<b>Molecular Weight:</b>	562.61
<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-44 (Compound 22) selectively inhibits PD-1/PD-L1 proteins (IC <sub>50</sub> =1.21 nM). PD-1/PD-L1-IN-44 inhibits tumor growth without toxicity in animal models and increases CD8 <sup>+</sup> cell infiltration <sup>[1]</sup> .								
<b>In Vitro</b>	<p>PD-1/PD-L1-IN-44 shows non-specific toxicity (IC<sub>50</sub>&gt;20 μM (MDA-MB231), &gt;20 μM (H1299), &gt;20 μM (HCT116), &gt;20 μM (A549))<sup>[1]</sup>.</p> <p>PD-1/PD-L1-IN-44 (10 μM; 48 h) effectively inhibits the proliferation ability of A549 cells in A549/PBMC T cells, and the inhibition rate even reaches 76.5%<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Immunofluorescence<sup>[1]</sup></p> <table border="1"> <tr> <td>Cell Line:</td> <td>A549/PBMC T cells</td> </tr> <tr> <td>Concentration:</td> <td>10 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>48 h</td> </tr> <tr> <td>Result:</td> <td>Inhibited cell proliferation more than BMS-1 (HY-19991) and BMS-1166 (HY-102011). Induced PBMC T cells to kill A549 cells</td> </tr> </table>	Cell Line:	A549/PBMC T cells	Concentration:	10 μM	Incubation Time:	48 h	Result:	Inhibited cell proliferation more than BMS-1 (HY-19991) and BMS-1166 (HY-102011). Induced PBMC T cells to kill A549 cells
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<b>In Vivo</b>	<p>PD-1/PD-L1-IN-44 (10 mg/kg; i.p.; once daily for 21 days) significantly inhibits tumor growth in 4T1 model mice<sup>[1]</sup>.</p> <p>Dissolved formulation of the drug was 5 % DMSO, 10 % Castor oil, 85 % saline</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>								

### REFERENCES

[1]. Zhang Y, et al. Improving tumor sensitivity by the introduction of an ester chain to triaryl derivatives targeting PD-1/PD-L1. Eur J Med Chem. 2024 May 5;271:116433.

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

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