**Durvalumab**

**Cat. No.:** HY-P9919  
**CAS No.:** 1428935-60-7  
**Target:** PD-1/PD-L1  
**Pathway:** Immunology/Inflammation  
**Storage:** Please store the product under the recommended conditions in the Certificate of Analysis.

### BIOLOGICAL ACTIVITY

**Description**
Durvalumab (MEDI 4736) is a humanized anti-PD-L1 monoclonal antibody\(^1\). Durvalumab (MEDI4736) completely blocks the binding of PD-L1 to both PD-1 and CD80, with IC\(_{50}\)s of 0.1 and 0.04 nM, respectively\(^2\).

<table>
<thead>
<tr>
<th>IC(_{50}) &amp; Target</th>
<th>IC50: 0.1 nM (PD-L1/PD-1), 0.04 nM (PD-L1/CD80)(^2)</th>
</tr>
</thead>
</table>

**In Vivo**
Durvalumab inhibits tumor growth in mouse xenograft models of human melanoma (A375) and pancreatic (HPAC) tumor cell lines, via a T-cell-mediated mechanism. Durvalumab (5-0.01 mg/kg for NOD/SCID mice with HPAC tumor; 5-0.1 mg/kg for NOD/SCID mice with A375 tumor; administration i.p.; twice per week; for 3 weeks) significantly inhibits the tumor growth of both HPAC and A375 xenografts compared with an isotype-matched control antibody. Tumor growth inhibition of the HPAC cells reaches 74%, whereas inhibition of the A375 cells reaches 77%. When administered in the absence of T cells, Durvalumab has no effect on the growth of the A375 tumor xenograft\(^2\).

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

<table>
<thead>
<tr>
<th>Animal Model:</th>
<th>NOD/SCID mice with HPAC tumor, following coimplantation of primary human T cells; NOD/SCID mice with A375 tumor, following coimplantation of primary human T cells(^2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dosage:</td>
<td>5, 1, 0.1, and 0.01 mg/kg for NOD/SCID mice with HPAC tumor; 5, 1, and 0.1 mg/kg for NOD/SCID mice with A375 tumor</td>
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<tr>
<td>Administration:</td>
<td>Administration i.p.; twice per week; for 3 weeks</td>
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<tr>
<td>Result:</td>
<td>Significantly inhibited the tumor growth of both HPAC and A375 xenografts compared with an isotype-matched control antibody.</td>
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</tbody>
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### CUSTOMER VALIDATION


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REFERENCES


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

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