



## Product Data Sheet

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<b>Product Name:</b>	Human PD-L1 inhibitor IV	
<b>Catalog Number:</b>	AS-65584 (1 mg)	Lot Number: See label on vial
<b>Sequence:</b>	H-Gly-Asn-Trp-Asp-Tyr-Asn-Ser-Gln-Arg-Ala-Gln-Leu-Tyr-Asn-Gln-OH  GNWDYNSQRAQLYNQ	
<b>Molecular Weight:</b>	1857.0	
<b>Peptide Purity:</b>	Peak Area by HPLC ≥95%	
<b>Storage:</b>	This peptide is shipped at ambient temperature. Upon receipt, store lyophilized peptide at –20°C or lower. Reconstituted peptide can be aliquoted and stored at –20°C or lower.	
<b>Description:</b>	<p>Programed cell death protein 1 (PD-1) is a cell surface receptor. PD-1 and its ligand PD-L1 are crucial immune checkpoints to downregulate T cell activation, tolerance and immunopathology. Several types of cancer cells overexpress PD-L1 in order to escape from the PD-1/PD-L1 immunosurveillance mechanism.</p> <p>Human PD-L1 inhibitor IV is a peptide-based molecule. It binds to human PD-1 and inhibits PD-1/PD-L1 binding. This peptide, hPDL-1 inhibitor IV has anchor residues (underlined), GN<u>WDYNSQRAQLYNQ</u> that influence binding of hPD-L1 to hPD-1. Developing inhibitors specifically blocking the PD-1/PD-L1 pathway has become a popular approach toward cancer treatment.</p>	
<b>Related Products:</b>	Human PD-L1 inhibitor I, Cat# AS-65581 Human PD-L1 inhibitor II, Cat# AS-65582 Human PD-L1 inhibitor III, Cat# AS-65583 Human PD-L1 inhibitor V, Cat# AS-65585	
<b>References:</b>	<ol style="list-style-type: none"><li>1. Bardhan K., et.al, <i>Front Immunol</i> <b>7(550)</b>, (2016)</li><li>2. Li Q., et.al, <i>Oncotarget</i> <b>7(40)</b>, 64967-64976 (2016)</li><li>3. D'Errico G., et.al, <i>Clin Transl Med</i> <b>6(1)</b>, 3-12 (2017)</li></ol>	

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