

## PD-L2 Protein, Cynomolgus (HEK293, Fc)

<b>Cat. No.:</b>	HY-P70964
<b>Synonyms:</b>	Programmed Cell Death 1 Ligand 2; PD-1 Ligand 2; PD-L2; PDCD1 Ligand 2; Programmed Death Ligand 2; Butyrophilin B7-DC; B7-DC; CD273; PDCD1LG2; B7DC; CD273; PDCD1L2; PDL2
<b>Species:</b>	Cynomolgus
<b>Source:</b>	HEK293
<b>Accession:</b>	A4GW30 (L20-P219)
<b>Gene ID:</b>	716003
<b>Molecular Weight:</b>	60-90 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> L F T V T V P K E L   Y I I E H G S N A T   L E C N F D T G S H   V N L G A I T A S L Q K V E N D T S P H   R E R A T L L E E Q   L S L G K A L F H I   P Q V Q V R D E G Q Y Q C I I I Y G V A   W D Y K Y L T L K V   K A S Y R K I N T H   I L K V P E T D E V E L T C Q A T G Y P   L A E V S W P N I S   V P A N T S H S R T   P E G L Y Q V T S V L R L K P H P G R N   F S C V F W N A Q V   R E L T L A S I D L   Q S Q I E P R T H P           </pre>
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	<p>Programmed cell death 1 ligand 2 is a cell surface receptor also known as PD-L2, B7-DC or CD273. PDCD1LG2 is an immune checkpoint receptor ligand that plays a negative regulatory role in adaptive immune response. PDCD1LG2 binds to PD-1 to activate pathways that inhibit TCR/ BCR-mediated immune cell activation. PDCD1LG2 plays an important role in immune tolerance and autoimmunity, and both PD-L1 and PDCD1LG2 can inhibit T cell proliferation and inflammatory cytokine production. Blocking PDCD1LG2 exacerbates experimental autoimmune encephalomyelitis. PDCD1LG2 triggers IL-12 production in mouse dendritic cells, leading to T-cell activation. Treatment with PDCD1LG2 Ig led to a proliferation of T helper cells. The expression of PDCD1LG2 on mouse tumor cells inhibits cytotoxic T cell-mediated immune responses and</p>
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can be used as a biomarker or prognostic indicator<sup>[1][2][3][4][5]</sup>.

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

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