

## PD-L1 Protein, Cynomolgus (HEK293, His)

<b>Cat. No.:</b>	HY-P70564
<b>Synonyms:</b>	B7-H; B7H1; B7-H1; PDCD1L1; CD274 molecule; CD274; PDCD1L1; PDCD1LG1; PDL1; PD-L1; PD-L1B7 homolog 1; PDL1PDCD1 ligand 1; programmed cell death 1 ligand 1; Programmed death ligand 1
<b>Species:</b>	Cynomolgus
<b>Source:</b>	HEK293
<b>Accession:</b>	G7PSE7 (F19-T239)
<b>Gene ID:</b>	102145573
<b>Molecular Weight:</b>	32-40 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> F T V T V P K D L Y   V V E Y G S N M T I   E C K F P V E K Q L   D L T S L I V Y W E M E D K N I I Q F V   H G E E D L K V Q H   S N Y R Q R A Q L L   K D Q L S L G N A A L R I T D V K L Q D   A G V Y R C M I S Y   G G A D Y K R I T V   K V N A P Y N K I N Q R I L V V D P V T   S E H E L T C Q A E   G Y P K A E V I W T   S S D H Q V L S G K T T T T N S K R E E   K L L N V T S T L R   I N T T A N E I F Y   C I F R R L D P E E N H T A E L V I P E   L P L A L P P N E R   T </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>CD274 molecule is also known as programmed death ligand 1 (PD-L1), and PD-L1 binds to the inhibitory checkpoint molecule PD-1 and interacts with phosphatase (SHP-1 or SHP-2) through the immune receptor tyrosinyl switch Motif (ITSM) to transmit inhibitory signals. The binding of PD-L1 to its receptor PD-1 on T cells transmits signals that inhibit TCR-mediated IL-2 production and T cell proliferation. By inhibiting ZAP70 phosphorylation and its association with CD3ζ, PD-1 signaling attenuates PKC-θ-activated ring phosphorylation (caused by TCR signaling), which is required for the activation of the transcription factors NF-κB and AP-1 and the production of IL-2. PD-L1 binding to PD-1 is also induced by the</p>
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upregulation of the E3 ubiquitin ligase CPL-B. PD-L1 is involved in the PI3K/JAK/STAT signaling pathway to promote tumor occurrence<sup>[1][2][3][4]</sup>.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA