

## PD-L1 Protein, Rat (HEK293, Fc)

Cat. No.:	HY-P73364
Synonyms:	Programmed cell death 1 ligand 1; PD-L1; B7-H1; CD274; PDL1
Species:	Rat
Source:	HEK293
Accession:	NP_001178883.1 (A18-T238)
Gene ID:	499342
Molecular Weight:	Approximately 63 kDa

### PROPERTIES

AA Sequence	<pre> A F T I T A P K D L   Y V V E Y G S N V T   M E C R F P V E Q K   L D L L A L V V Y W E K E D K E V I Q F   V E G E E D L K P Q   H S S F R G R A F L   P K D Q L L K G N A V L Q I T D V K L Q   D A G V Y C C M I S   Y G G A D Y K R I T   L K V N A P Y R K I N Q R I S M D P A T   S E H E L M C Q A E   G Y P E A E V I W T   N S D H Q S L S G E T T V T T S Q T E E   K L L N V T S V L R   V N A T A N D V F H   C T F W R V H S G E N H T A E L I I P E   L P V P R L P H N R   T           </pre>
Biological Activity	Measured by its ability to inhibit anti-CD3-induced proliferation of stimulated CTLL $\chi$ 2 mouse cytotoxic T cells. The ED <sub>50</sub> this effect is 0.2157 $\mu$ g/mL in the presence of 10 $\mu$ g/mL anti-CD3, corresponding to a specific activity is 4.64 $\times$ 10 <sup>3</sup> units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 $\mu$ m filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4
Endotoxin Level	<1 EU/ $\mu$ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL in ddH <sub>2</sub> O.
Storage & Stability	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.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	Programmed death-ligand 1 (PD-L1) plays a critical role in the positive regulation of T cell proliferation and cell migration. Situated on the cell surface, PD-L1 serves as a biomarker for conditions such as periodontitis and pre-eclampsia. Its orthologous counterpart in humans is CD274 (CD274 molecule). With biased expression observed in the thymus (RPKM 102.9), spleen (RPKM 58.3), and various other tissues, PD-L1 is central to immune regulation and holds significance in the
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context of diverse physiological and pathological conditions.

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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