

PD-L1 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P70632
Synonyms:	Programmed cell death 1 ligand 1Cd274; programmed cell death 1 ligand 1; PD-L1; PDCD1 ligand 1; programmed death ligand 1; B7 homolog 1; B7-H1; CD274
Species:	Mouse
Source:	HEK293
Accession:	Q9EP73 (F19-T238)
Gene ID:	60533
Molecular Weight:	38-58 kDa

PROPERTIES

AA Sequence	<pre> FTITAPKDLV VVEYGSNVTM ECRFPVEREL DLLALVYWE KEDEQVIQFV AGEEDLKPQH SNFRGRASLP KDQLLKGNAA LQITDVKLQD AGVYCCIIISY GGADYKRITL KVNAPYRKIN QRISVDPATS EHELICQAEG YPEAEVIWTN SDHQPVSGKR SVTTSRTEGM LLNVTSSLRV NATANDVFYC TFWRSQPGQN HTAELIIPEL PATHPPQNR T </pre>
Biological Activity	Measured by its ability to inhibit anti-CD3-induced proliferation of stimulated CTLL-2 mouse cytotoxic T cells. The ED ₅₀ this effect is ≤0.8023 µg/mL, corresponding to a specific activity is 1246.42 units/mg
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4 or PBS, pH 7.4, 8% trehalose.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years from date of receipt. 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	PD-L1 protein plays a crucial role in maintaining immune tolerance to self by acting as a ligand for the inhibitory receptor PDCD1/PD-1. This interaction modulates the activation threshold of T-cells, limiting their effector response and potentially stimulating T-cell subsets that produce interleukin-10 (IL10). However, tumors exploit the PDCD1-mediated inhibitory
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pathway to attenuate anti-tumor immunity and evade destruction by the immune system, thereby promoting tumor survival. The interaction between PD-L1 and PDCD1/PD-1 inhibits the function of cytotoxic T lymphocytes (CTLs), but blocking this pathway can reverse the exhausted T-cell phenotype and normalize the anti-tumor response, offering a promising strategy for cancer immunotherapy.

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

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