

Product Data Sheet

PD-L1 Protein, Canine (HEK293, Fc)

Cat. No.: HY-P73717

Synonyms: Programmed cell death 1 ligand 1; PD-L1; B7-H1; CD274; PDL1

Species: HEK293 Source:

NP_001278901 (F19-R236) Accession:

Gene ID: 484186

Molecular Weight: Approximately 70-80&140-160 kDa due to the glycosylation

PROPERTIES

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$\Lambda \Lambda$	Sec	IIIΔN	60

FTITVSKDLY VVEYGGNVTM ECKFPVEKQL NLFALIVYWE MEDKKIIQFV NGKEDLKVQH SSYSQRAQLL KDQLFLGKAA AGVYCCLIGY LQITDVRLQD GGADYKRITL KVHAPYRNIS QRISVDPVTS EHELMCQAEG YPEAEVIWTS SDHRVLSGKT LFNVTSTLNI NATANEIFYC TITNSNREEK TFQRSGPEEN

NTAELVIPER LPVPASER

Biological Activity

Measured by its binding ability in a functional ELISA. When Recombinant Canine PD-1 is present at 0.5 μg/mL, can bind Recombinant Canine PD-L1. The ED₅₀ for this effect is 4.116 μg/mL.

Appearance

Lyophilized powder.

Formulation

Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

Endotoxin Level

<1 EU/µg, determined by LAL method.

Reconsititution

It is not recommended to reconstitute to a concentration less than $100 \, \mu g/mL$ in ddH_2O . 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. 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 is the third member of the B7 family that does not bind CD28, cytotoxic T-lymphocyte A4 or inducible co-stimulator, and has 10-25% homology with B7.1 and B7.2 proteins. PD-L1 is encoded by the PDCDL1 gene, which was discovered at p24.1 on human chromosome $9^{[1]}$.

Page 1 of 2 www.MedChemExpress.com The most important role of PD-L1 is binding with programmed death-1 (PD-1; CD279), a type I transmembrane receptor that is 288 amino acids long and was first found on T cells. The engagement of PD-L1 and PD-1 on cancer cells activates Src homology region 2 domain-containing phosphatases, which inhibit the T cell receptor (TCR) pathway. Inhibition of the TCR pathway leads to inhibition of T cell activities, including proliferation, survival and cytokine production, such as that of IL-2, tumour necrosis factor α (TNF- α) and interferon γ (IFN- γ), as well as the inhibition of B7-1 and T cell tolerance^[1].

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

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