

Overview

Synonyms	PD-1; CD279; PDCD1; Programmed Death-1; PD-L1; B7-H1; CD274; PDCD1L1; PDCD1LG1; B7 Homolog 1, human pd-l1, pdl1, 免疫检查点
Description	<p>Programmed death-ligand 1 (PD-L1) also known as cluster of differentiation 274 (CD274) or B7 homolog 1 (B7-H1) is a protein that in humans is encoded by the CD274 gene. PD-L1((B7-H1)) is a 40kDa type 1 transmembrane protein that has been speculated to play a major role in suppressing the immune system during particular events such as pregnancy, tissue allografts, autoimmune disease and other disease states such as hepatitis.</p> <p>Normally the immune system reacts to foreign antigens where there is some accumulation in the lymph nodes or spleen which triggers a proliferation of antigen-specific CD8+ T cell. PD-L1(B7-H1) binds to its receptor, PD-1, found on activated T cells, B cells, and myeloid cells, to modulate activation or inhibition. PD-L1(B7-H1) expression is up-regulated in a small fraction of activated T and B cells and a much larger fraction of activated monocytes. PD-L1(B7-H1) expression is also induced in dendritic cells and keratinocytes after IFN-gamma stimulation. Interaction of B7-H1 with PD-1 results in inhibition of TCR-mediated proliferation and cytokine production.</p> <p>Recombinant Human PD-L1 produced in HEK293 cells is a polypeptide chain containing 227 amino acids with C-terminal 6xHis. A fully biologically active molecule, rhPD-L1 has a molecular mass of 31-35 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.</p>
Source	HEK293
Biological Activity	Immobilized PD-L1, His, Human at 2 µg/mL (100 µl/well) can bind PD-1 Fc Chimera, Human(Cat: Z03370) with a linear range of 24-390 ng/mL.
Sequence	<p>Phe¹⁹-Thr²³⁹ (Accession #: Q9NZQ7-1), expressed with a C-terminal 6xHis</p> <pre> FTVTVPKDLVVEYGSNMTIECKFPVEKQLDLAALIVYW EMEDKNIIQFVHGEEDLKVQHSSYRQRARLLKQQLSLGN AALQITDVKLQDAGVYRCMISYGGADYKRITVKVNPAPYN KINQRILVVDPVTSEHELTCAEGYPKAEVIWTSDDHQV LSGKTTTTNSKREEKLFNVTSTLRINTTTNEIFYCTFRR LDPEENHTAELVPELPLAHPNERTHHHHHH </pre>

Properties

Measured Molecular Weight	31-35 kDa, observed by reducing SDS-PAGE.
Purity	>95% as analyzed by reducing SDS-PAGE.
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS, 5% trehalose and mannitol.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 µg/ml.
Endotoxin Level	< 0.2 EU/µg, determined by LAL method.
Storage	Lyophilized recombinant PD-L1 remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Human PD-L1 should be stable up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

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