

Rev06
 Update: Aug,20,2025

DATASHEET

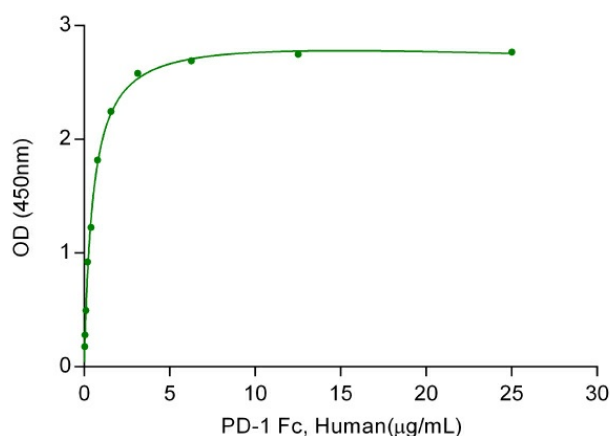
PD-L1, His, Human

Cat. No.: Z03425

Product Introduction

Species	Human
Protein Construction	PD-L1 (Phe19-Thr239) Accession # Q9NZQ7-1 Poly-His N-term C-term
Purity	> 95% as analyzed by SDS-PAGE
Endotoxin Level	< 0.2 EU/μg of protein by gel clotting method
Biological Activity	Immobilized PD-L1, His, Human at 2.0 μg/ml (100 μl/well) can bind PD-1 Fc Chimera, Human(Cat. No.: Z03370).
Expression System	HEK 293
Apparent Molecular Weight	31~35 kDa, on SDS-PAGE under reducing conditions.
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS, 5% trehalose and mannitol.
Reconstitution	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH ₂ O or PBS up to 100 μg/ml.
Storage & Stability	Upon receiving, this product remains stable for 6 months at lower than -70°C. Upon reconstitution, the product should be stable for 1 week at 4°C or for 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.

Examples



Immobilized PD-L1, His, Human at 2 µg/mL (100 µl/well) can bind PD-1 Fc Chimera, Human (Cat.No.Z03370) with a linear range of 24-390 ng/mL.

Background

Target Background : 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 is a 40 kDa 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. 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. The formation of PD-1 receptor / PD-L1 or B7.1 receptor /PD-L1 ligand complex transmits an inhibitory signal which reduces the proliferation of these CD8⁺ T cells at the lymph nodes and supplementary to that PD-1 is also able to control the accumulation of foreign antigen specific T cells in the lymph nodes through apoptosis which is further mediated by a lower regulation of the gene Bcl-2. PD-L1 binds to its receptor, PD-1, found on activated T cells, B cells, and myeloid cells, to modulate activation or inhibition. Recombinant Human PD-L1(B7-H1) Fc Chimera produced in CHO cells is a polypeptide chain containing 457 amino acids. A fully biologically active molecule, rh PD-L1(B7-H1) has a molecular mass of 70-72 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

Synonyms : PDL1; CD274; PDCD1L1; PDCD1LG1; B7-H1; B7-H; CD274 molecule; Programmed cell death ligand 1

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.

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