

Rev04 Update: Mar,01,2022

DATASHEET

PD-L1 Fc Chimera, Human

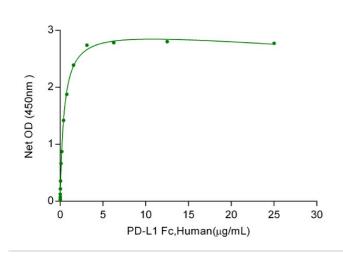
Cat. No.: Z03371

Product Introduction

| Species | Human |
|---------------------------|--|
| Protein Construction | PD-L1 (Phe19-Thr239) Accession # Q9NZQ7-1hFcN-termC-term |
| Purity | > 98% as analyzed by SDS-PAGE |
| Endotoxin Level | < 0.2 EU/ μ g of protein by gel clotting method |
| Biological Activity | Assay #1: Immobilized PD-L1, hFc, Human at 1.0 μg/ml (100 μl/well) can bind biotinylated PD-1, hFc, Human (Cat.No.: Z03370). Assay #2: Immobilized PD-1, His, Human(Cat.No.: Z03424) at 2.0 μg/ml can bind PD-L1, hFc, Human. |
| Expression System | СНО |
| Apparent Molecular Weight | 70~72 kDa, on SDS-PAGE under reducing conditions. |
| Formulation | Lyophilized from a 0.2 µm filtered solution in PBS |
| 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 μ g/ml. |
| Storage & Stability | Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for 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. |

Examples





Immobilized PD-1,His, Human(Cat.No.Z03424) at 2 μ g/mL can bind PD-L1 Fc Chimera, Human with a linear range of 24-390ng/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

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