



Synonym

PD-L1, CD274, B7-H1, PDCD1L1, PDCD1LG1

Source

Cynomolgus / Rhesus macaque PD-L1, Fc Tag (PD1-C5253) is expressed from human 293 cells (HEK293). It contains AA Phe 19 - Arg 238 (Accession # [F6VEW6-1](#)). In the region Phe 19 - Arg 238, the AA sequence of Cynomolgus and Rhesus macaque PD-L1 are homologous.

Predicted N-terminus: Phe 19

Molecular Characterization

| | |
|-------------------------------------|---------------------------------|
| PD-L1(Phe 19 - Arg 238) F6VEW6-1 | Fc(Pro 100 - Lys 330) P01857 |
|-------------------------------------|---------------------------------|

This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 51.8 kDa. The protein migrates as 60-70 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

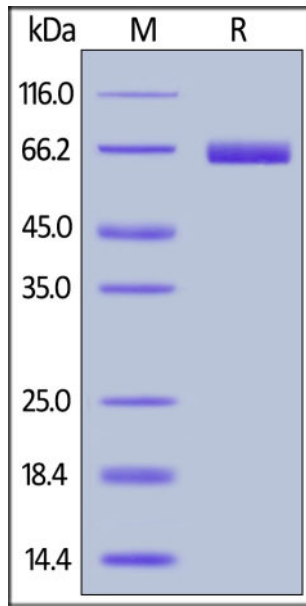
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

ACRO Quality Management System

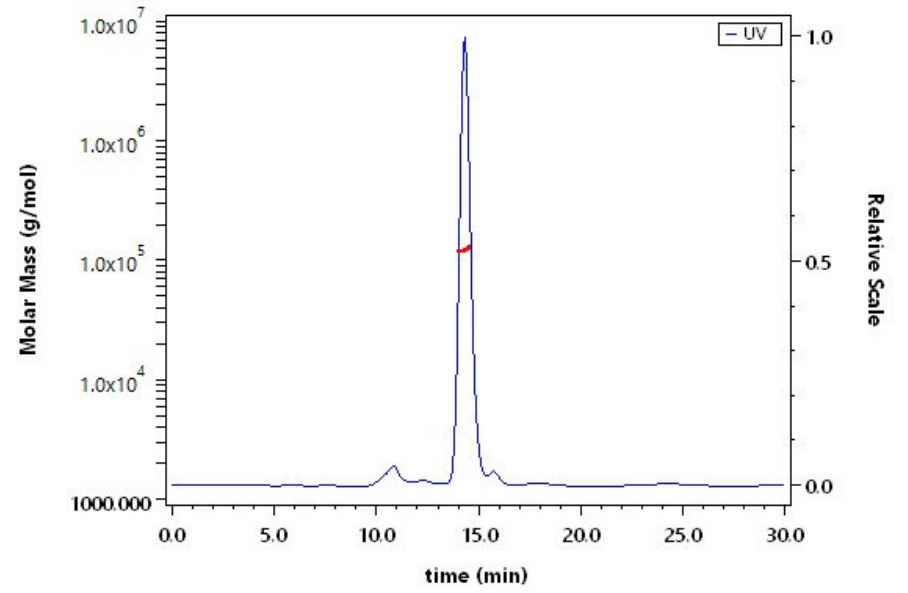
- [QMS\(ISO, GMP\)](#).
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



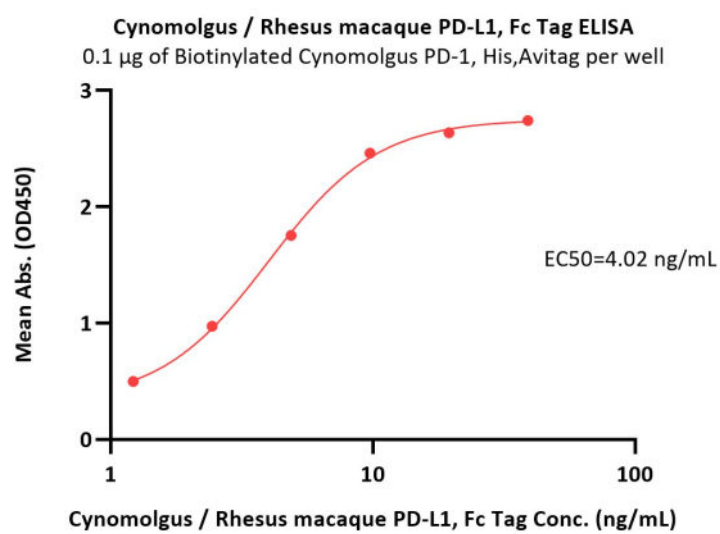
Cynomolgus / Rhesus macaque PD-L1, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

SEC-MALS

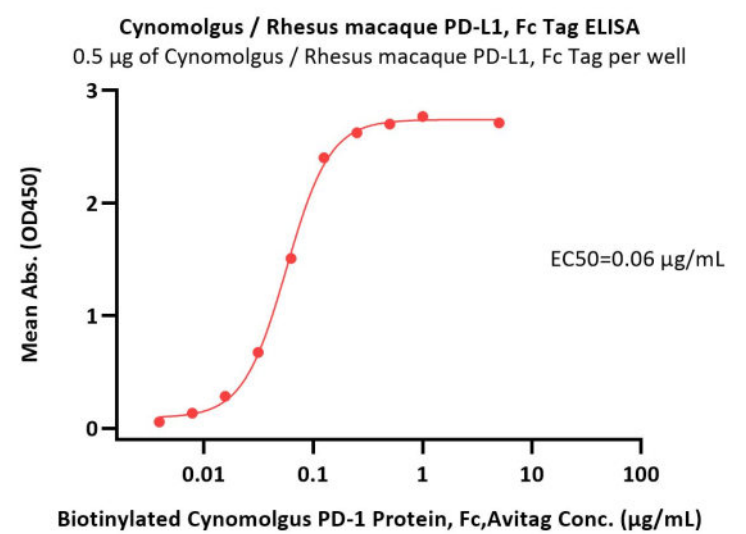


The purity of Cynomolgus / Rhesus macaque PD-L1, Fc Tag (Cat. No. PD1-C5253) is more than 85% and the molecular weight of this protein is around 110-140 kDa verified by SEC-MALS.

Bioactivity-ELISA

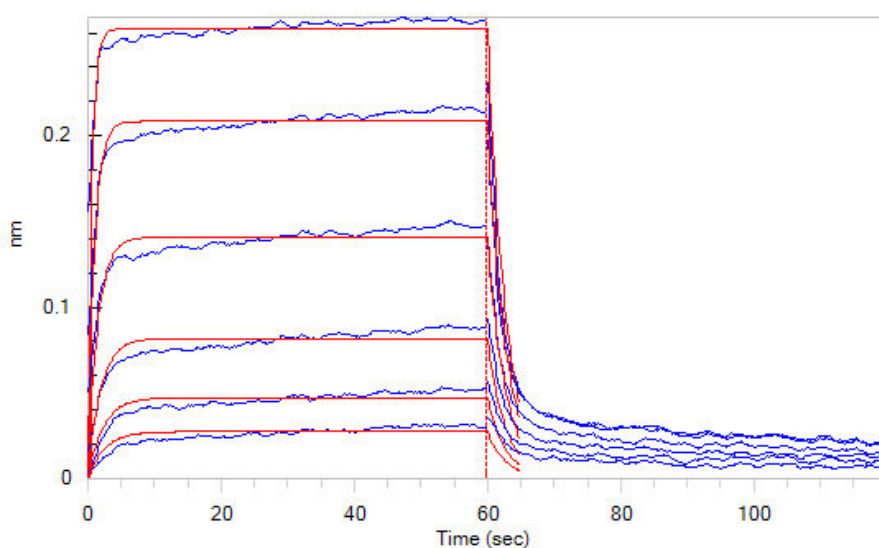


Immobilized Biotinylated Cynomolgus PD-1, His,Avitag (Cat. No. PD1-C82E6) at 1 $\mu\text{g/mL}$ (100 μL /well) on streptavidin precoated (0.5 μg /well) plate, can bind Cynomolgus / Rhesus macaque PD-L1, Fc Tag (Cat. No. PD1-C5253) with a linear range of 1-5 ng/mL (Routinely tested).

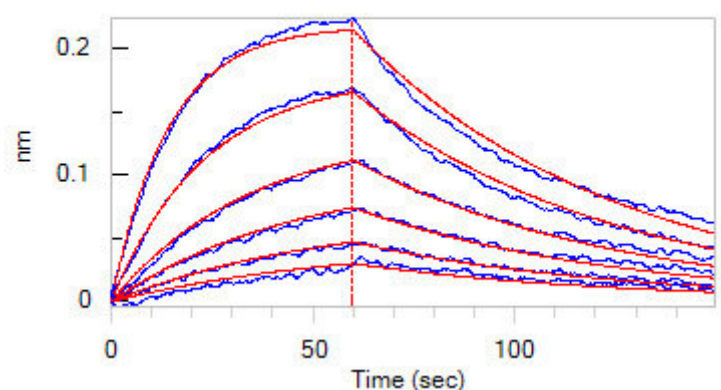


Immobilized Cynomolgus / Rhesus macaque PD-L1, Fc Tag (Cat. No. PD1-C5253) at 5 $\mu\text{g/mL}$ (100 μL /well) can bind Biotinylated Cynomolgus PD-1 Protein, Fc,Avitag (Cat. No. PD1-C82F7) with a linear range of 0.004-0.125 $\mu\text{g/mL}$ (Routinely tested).

Bioactivity-BLI



Loaded Cynomolgus / Rhesus macaque PD-L1, Fc Tag (Cat. No. PD1-C5253) on Protein A Biosensor, can bind Cynomolgus PD-1, His Tag (Cat. No. PD1-C52H5) with an affinity constant of 4.2 μM as determined in BLI assay (ForteBio Octet Red96e) (QC tested).



Loaded Cynomolgus PD-1, His Tag (Cat. No. PD1-C52H5) on HIS1K Biosensor, can bind Cynomolgus / Rhesus macaque PD-L1, Fc Tag (Cat. No. PD1-C5253) with an affinity constant of 28.3 nM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).

Background

Programmed cell death 1 ligand 1 (PDL1) is also known as B7-H, B7H1, MGC142294, MGC142296, PD-L1, PDCD1L1 and PDCD1LG1, which is a member of the growing B7 family of immune molecules and is involved in the regulation of cellular and humoral immune responses. PDL1 is a cell surface immunoglobulin

superfamily with two Ig-like domains within the extracellular region and a short cytoplasmic domain. This protein is broadly expressed in the majority of peripheral tissues as well as hematopoietic cells. Interaction between PDL1 and its receptors belonging to the CD28 family of molecules provide both stimulatory and inhibitory signals in regulating T cell activation and tolerance. PDL1 may inhibit ongoing T-cell responses by inducing apoptosis and arresting cell-cycle progression.



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