

Synonym

PDL2,PD-L2,Butyrophilin B7-DC,CD273,PDCD1 ligand 2,PDCD1L2,PDCD1LG2

Source

Mouse PD-L2, Mouse IgG2a Fc Tag, low endotoxin (PD2-M52A5) is expressed from human 293 cells (HEK293). It contains AA Leu 20 - Arg 219 (Accession # NP_067371).

Predicted N-terminus: Leu 20

Molecular Characterization

PD-L2(Leu 20 - Arg 219) NP_067371	mFc(Glu 98 - Lys 330) P01863
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This protein carries a mouse IgG2a Fc tag at the C-terminus.

The protein has a calculated MW of 49.6 kDa. As a result of glycosylation, the protein migrates as 60-70 kDa under reducing (R) condition, and 140 kDa under non-reducing (NR) condition (SDS-PAGE).

Endotoxin

Less than 0.1 EU per µg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.

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

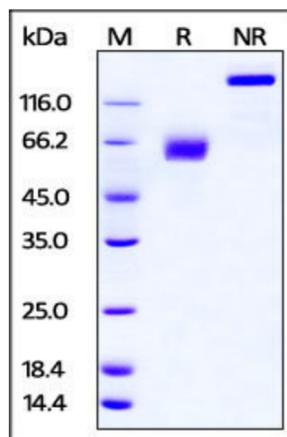
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

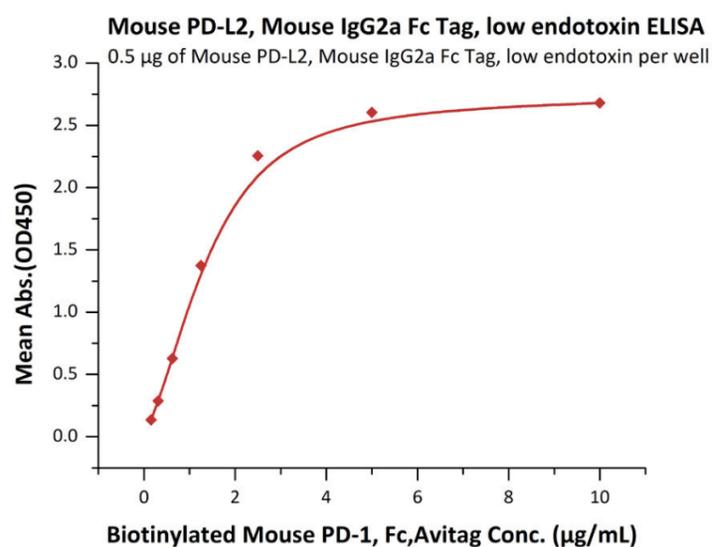
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Mouse PD-L2, Mouse IgG2a Fc Tag, low endotoxin on SDS-PAGE under reducing (R) and non-reducing (NR) conditions. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA



Immobilized Mouse PD-L2, Mouse IgG2a Fc Tag, low endotoxin (Cat. No. [PD2-M52A5](#)) at 5 µg/mL (100 µL/well) can bind Biotinylated Mouse PD-1, Fc, Avitag (Cat. No. [PD1-M82F4](#)) with a linear range of 0.156-1.25 µg/mL (Routinely tested).

Background

Programmed cell death 1 ligand 2 (PD-L2 or PDCD1 ligand 2) is also known as Butyrophilin B7-DC, CD antigen CD273, which belongs to the immunoglobulin superfamily or BTN/MOG family. The expression of PD-L2 is up-regulated by IFNG/IFN-gamma stimulation in monocytes and induced on dendritic cells grown from peripheral blood mononuclear cells with CSF2 and IL-4. PD-L2 Involved in the costimulatory signal, essential for T-cell proliferation and IFNG production in a PDCD1-independent manner. PD-L2 interaction with PDCD1 inhibits T-cell proliferation by blocking cell cycle progression and cytokine production.

References

- (1) [Tseng S.-Y., et al., 2001, J. Exp. Med. 193:839-846.](#)
- (2) [Latchman Y., et al., 2001, Nat. Immunol. 2:261-268.](#)
- (3) [He X.-H., et al., 2004, Acta Biochim. Biophys. Sin. 36:284-289.](#)

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.