

# Recombinant Mouse PD-L1/B7-H1 protein (His Tag)

Catalog Number: Eg0986

Basic Information	Species: Mouse	Purity: >90 %, SDS-PAGE	Tag: His Tag
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## Technical Specifications

**Purity:**

&gt;90 %, SDS-PAGE

**Endotoxin Level:**

&lt;1.0 EU/ µg protein, LAL method

**Source:**

HEK293-derived Mouse PD-L1/B7-H1 protein Phe19-His239 (Accession# Q9EP73) with a His tag at the C-terminus.

**GeneID:**

60533

**Accession:**

Q9EP73

**Predicted Molecular Mass:**

26.0 kDa

**SDS-PAGE:****Formulation:**

Lyophilized from sterile PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

**Storage:**

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

**Shipping:**

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

PD-L1 (programmed cell death ligand 1, also known as CD274 or B7-H1) is a 290 aa type I transmembrane protein. PD-L1 is expressed constitutively on T cells, B cells, DCs, macrophages, mesenchymal stem cells and cultured bone marrow-derived mast cells. In addition, PD-L1 is also expressed on many nonhematopoietic cell types, including vascular endothelial cells, epithelial cells, muscle cells, hepatocytes, pancreatic islet cells, astrocytes in the brain, placental syncytiotrophoblasts, and cells in cornea, iris-ciliary body and retina of eye. PD-L1 is frequently upregulated in a wide variety of solid tumors, including melanoma, ovarian, lung, glioblastoma, breast, and pancreatic cancers. PD-L1 and PD-L2 are two ligands of PD-1. Engagement of PD-1 by PD-L1 or PD-L2 transduces a signal that inhibits T-cell proliferation, cytokine production, and cytolytic function. It is critical for the regulation of T cell function during tolerance, autoimmunity and infection. Besides the membrane-bound form, PD-L1 can also exist as a soluble form (sPD-L1) generated either by proteolytic cleavage of membrane-bound form or by translation of alternative spliced mRNA.

## References

1. Sharpe, Arlene H et al. Nature immunology vol. 8,3 (2007): 239-45.
2. Keir, Mary E et al. Annual review of immunology vol. 26 (2008): 677-704.
3. Riley, James L. Immunological reviews vol. 229,1 (2009): 114-25.
4. Takeuchi, Masahiro et al. Immunology letters vol. 196 (2018): 155-160.

## Synonyms

Cd274, PD-L1, B7 H1, PD L1, Pdcd1l1

## Selected Validation Data

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For technical support and original validation data for this product please contact

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