

Recombinant Rat B7-H1/PD-L1/CD274 Protein

Catalog No.: RP01568 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Rat	499342	D4AE25

Tags

C-His

Synonyms

Pcdcl1lg1; RGD1566211;CD274

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Calculated MW	Observed MW
25.90 kDa	40-50 kDa

Endotoxin

<0.1EU/μg

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

This protein is an immune inhibitory receptor ligand that is expressed by hematopoietic and non-hematopoietic cells, such as T cells and B cells and various types of tumor cells. The protein is a type I transmembrane protein that has immunoglobulin V-like and C-like domains. Interaction of this ligand with its receptor inhibits T-cell activation and cytokine production. During infection or inflammation of normal tissue, this interaction is important for preventing autoimmunity by maintaining homeostasis of the immune response. In tumor microenvironments, this interaction provides an immune escape for tumor cells through cytotoxic T-cell inactivation.

Basic Information

Description

Recombinant Rat B7-H1/PD-L1/CD274 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ala18-Thr238) of rat B7-H1/PD-L1/CD274 (Accession #NP_001178883.1) fused with a 6xHis tag at the C-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Rat PD-L1 (Catalog: RP01568) at 10 μg/mL (100 μL/well) can bind Biotinylated Rat PD-1 with a linear range of 0.0195-2.16 μg/mL.

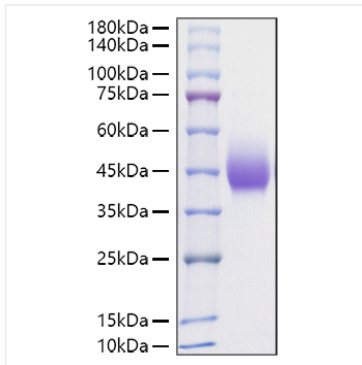
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

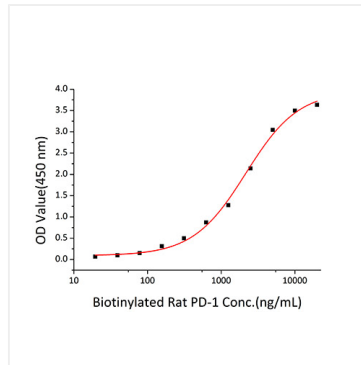
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Rat B7-H1/PD-L1/CD274
Protein was determined by SDS-PAGE with
Coomassie Blue, showing a band at 40-50
kDa.



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