

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

Catalog No.: RP01568

Sequence Information

Species **Gene ID**
Rat 499342

Swiss Prot **Tags**
D4AE25 C-His

Synonyms
Pdcd1lg1, RGD1566211, CD274

Product Information

Source **Purification**
HEK293 cells ≥ 95 % as
 determined by
 SDS-PAGE.

Calculated MW **Observed MW**
25.90 kDa 40–50 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL
method.

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.

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 6×His tag at the C-terminus.

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.

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at –20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

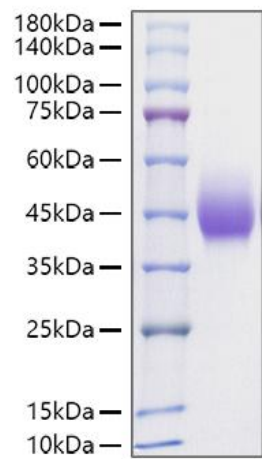
Contact

☎ | 400-999-6126

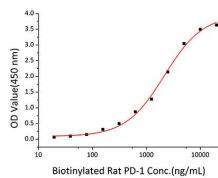
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Validation Data



Recombinant Rat B7-H1/PD-L1/CD274 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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