

Recombinant Human PD-1/PDCD1/CD279 Protein

Catalog No.: RP00072 **Recombinant**

Sequence Information

Species Human **Gene ID** 5133 **Swiss Prot** Q15116

Tags

C-hFc&His

Synonyms

PDCD1; CD279; PD-1; PD1; SLEB2;
 hPD-1; hPD-1; hSLE1; programmed cell
 death
 1;PD-1;CD279;PD1;SLEB2;hPD-1;hPD-
 1;hSLE1;PD-1/CD279

Product Information

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

Calculated MW	Observed MW
42.84 kDa	55-70 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. Contact us for
 customized product form or formulation.

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 a cell surface membrane protein of the immunoglobulin superfamily. This protein is expressed in pro-B-cells and is thought to play a role in their differentiation. In mice, expression of this gene is induced in the thymus when anti-CD3 antibodies are injected and large numbers of thymocytes undergo apoptosis. Mice deficient for this gene bred on a BALB/c background developed dilated cardiomyopathy and died from congestive heart failure.

Basic Information

Description

Recombinant Human PD-1/PDCD1/CD279 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Leu25-Thr168) of human PD-1 (Accession #NP_005009.2) fused with an Fc, 6×His tag at the C-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Recombinant Human PD-1 at 5 μg/mL (100 μL/well) can bind Recombinant Human PD-L1 with a linear range of 0.3-1.3 μg/mL.

Shipping

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

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.

Operational Notes

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

Contact

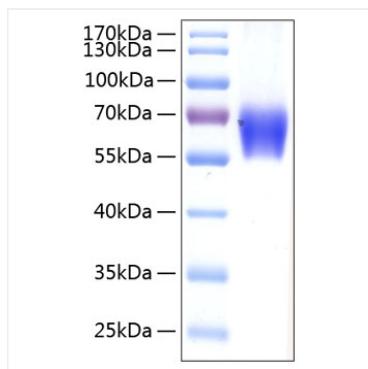


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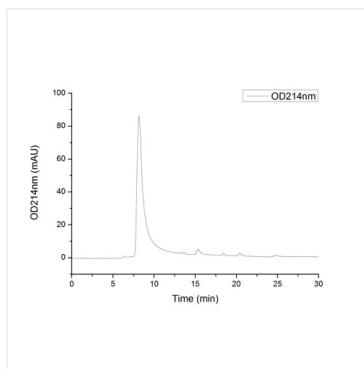
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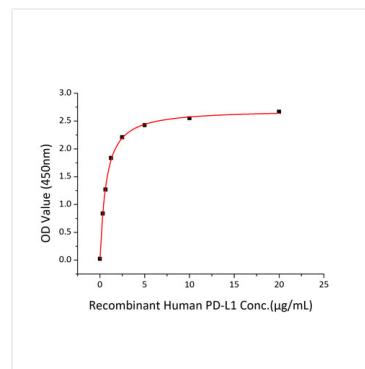
Validation Data



Recombinant Human PD-1/CD279 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



The purity of Human PD-1 Protein (Cat.RP00072) was greater than 95% as determined by SEC-HPLC.



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