

RP00067

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Recombinant Human PD-1/PDCD1/CD279 Protein

Catalog No.: RP00067

Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
HEK293 cells	5133	Q15116

Tags

C-His

Synonyms

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

Product Information

Source	Purification
	> 97% by SDS- PAGE.

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 freeze-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 cells expression system. The target protein is expressed with sequence (Leu25-Thr168) of human PD-1 (Accession #NP_005009.2) fused with a 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 0.5-2 μg/mL.

Storage

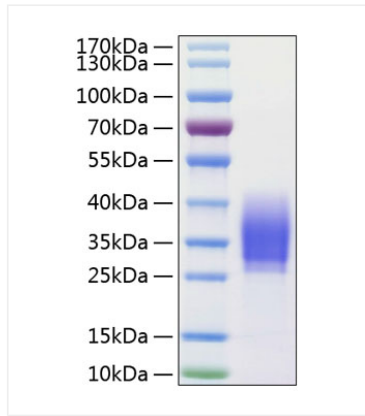
Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. Avoid repeated freeze/thaw cycles.

Contact

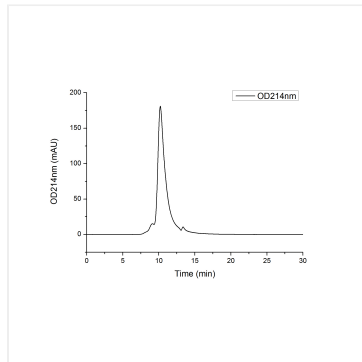


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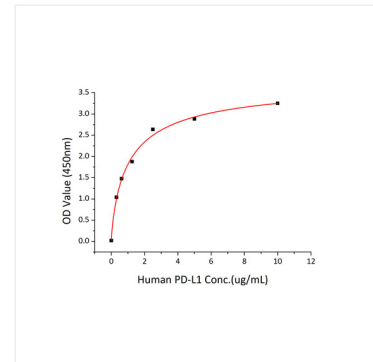
Validation Data



Recombinant Human PD-1/PDCD1/CD279 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 30-40 kDa.



The purity of Human PD-1 Protein (Cat.RP00067) was greater than 90% as determined by SEC-HPLC.



Immobilized Recombinant Human PD-1 at 5 $\mu\text{g/mL}$ (100 μL /well) can bind Recombinant Human PD-L1 with a linear range of 0.5-2 $\mu\text{g/mL}$.