Recombinant Human PD-1/PDCD1/CD279 Protein

Catalog No.: RP00067

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Sequence Information

Species
Human

Gene ID
5133

Swiss Prot
Q15116

Tags
C-His

Synonyms
PDCD1, CD279, PD-1, PD1, SLEB2, hPD-1, hPD-l, hSLE1, programmed cell death 1,PD-1,CD279,PD1, SLEB2,hPD-1,hPD-l,hSLE1,PD-1 /CD279

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE;≥ 90 % as determined by HPLC.

Calculated MW
16.89 kDa

Observed MW
25-40 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 stablizer (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 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.

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.

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℃

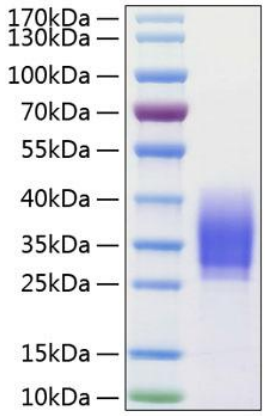
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

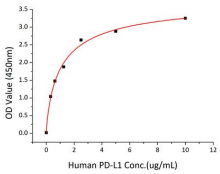
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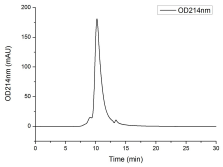
Validation Data



Recombinant Human PD-1/PDCD1/CD279 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Immobilized Recombinant Human PD-1 at 5 μg/mL (100uL/well) can bind Recombinant Human PD-L1 with a linear range of 0.5-2 μg/mL.



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