Biotinylated Recombinant Human PD-1/PDCD1 /CD279 Protein

Catalog No.: RP00398B

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Sequence Information

Species
Human

Gene ID
5133

Swiss Prot
Q15116-1

Tags
C-His&Avi

Synonyms
PDCD1; PD1; CD279; SLEB2; PD-1

Product Information

Source
HEK293 cells

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

Calculated MW
18.9 kDa

Observed MW
40-50 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

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

Programmed cell death protein 1, also known as PD-1 and CD279 , is a protein found on the surface of cells that has a role in regulating the immune system's response to the cells of the human body by down-regulating the immune system and promoting self tolerance by suppressing T cell inflammatory activity.

Basic Information

Description
Biotinylated Recombinant Human PD-1/PDCD1/CD279 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Leu25-Gln167) of Human PD-1/PDCD1 (Accession #Q15116-1) fused with a C-His&Avi tag at the C-terminus.

Activity

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℃

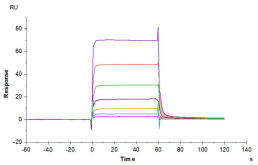
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

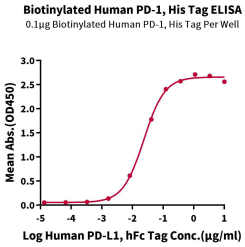
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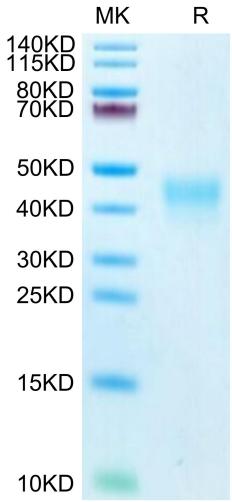
Validation Data



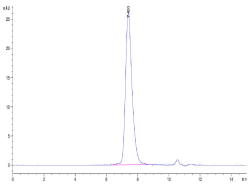
Human PD-L1, hFc Tag captured on CM5 Chip via Protein A can bind Biotinylated Human PD-1, His-Avi Tag with an affinity constant of 2.356 μM as determined in SPR assay (Biacore T200).



Immobilized Biotinylated Human PD-1, His Tag at 1 μg/mL (100 μL/Well) on streptavidin (5 μg/mL) precoated plate. Dose response curve for Human PD-L1, hFc Tag with the EC_{50} of 23.5ng/mL determined by ELISA (QC Test).



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



The purity of Biotinylated Human PD-1 is greater than 95% as determined by SEC-HPLC.

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