

Biotinylated Recombinant Human PD-1/PDCD1/CD279 Protein

Catalog No.: RP02538 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human		Q15116-1

Tags

C-His&Avi

Synonyms

PDCD1; PD1; CD279; SLEB2; PD-1

Product Information

Source

HEK293 cells

Purification

> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Endotoxin

Less than 1EU per µg by the LAL method.

Formulation

Reconstitution

Centrifuge the tube 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

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

Recombinant Biotinylated Human PD-1/PDCD1 Protein is expressed from Expi293 with His tag and Avi tag at the C-terminal. It contains Leu25-Gln167.

Bio-Activity

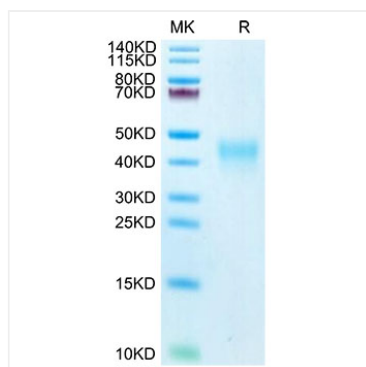
Storage

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.

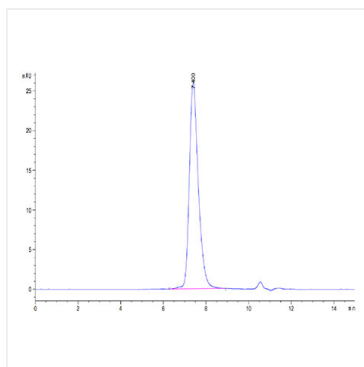
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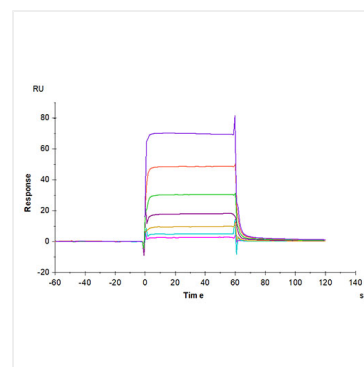
Validation Data



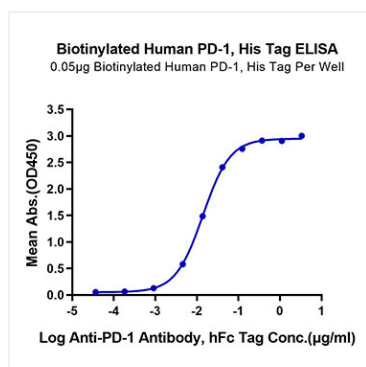
Biotinylated Human PD-1 on Tris-Bis PAGE under reduced. The purity is greater than 95%.



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



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 μ M as determined in SPR assay (Biacore T200).



Immobilized Biotinylated Human PD-1, His Tag at 0.5 μ g/ml (100 μ l/Well) on the plate. Dose response curve for Anti-PD-1 Antibody, hFc Tag with the EC_{50} of 14.0ng/ml determined by ELISA.