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Recombinant Human PD-1/PDCD1/CD279 Protein

Catalog No.: RP03166 Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 5133 Q8IX89 (O15116)

Tags

C-mFc

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

HEK293 cells

≥ 95 % as determined by Tris-Bis PAGE;≥ 95 % as determined by HPLC.

Calculated MW Observed MW

Endotoxin

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

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

8	400-999-6126
\bowtie	cn.market@abclonal.com.cn

Background

Programmed Death-1 receptor (PD-1), also known as CD279, is type I transmembrane protein belonging to the CD28 family of immune regulatory receptors.PD1 is a inhibitory receptor on antigen activated T-cells that plays a critical role in induction and maintenance of immune tolerance to self. Delivers inhibitory signals upon binding to ligands CD274/PDCD1L1 and CD273/PDCD1LG2 (PubMed:21276005). Following T-cell receptor (TCR) engagement, PDCD1 associates with CD3-TCR in the immunological synapse and directly inhibits T-cell activation.

Basic Information

Description

Recombinant Human PD-1/PDCD1/CD279 Protein is produced by Expi293 expression system. The target protein is expressed with sequence (Leu25-Gln167) of Human PD1 fused with mFc at the C-terminal.

Bio-Activity

1.Immobilized Human PD1 at 0.5 μ g/mL(100 μ L/Well). Dose response curve for Biotinylated Anti-PD1 Ab. with the EC₅₀ of 68 ng/mL determined by ELISA.|2.Immobilized Human PD-1, mFc Tag at 1μ g/ml (100 μ l/well) on the plate. Dose response curve for Human PD-L1, hFc Tag with the EC50 of 0.15 μ g/ml determined by ELISA.

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.

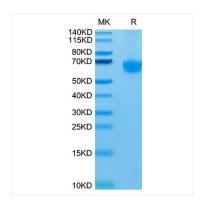
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

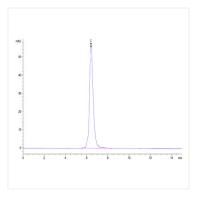
Operational Notes

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

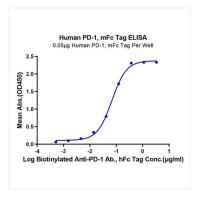
Validation Data



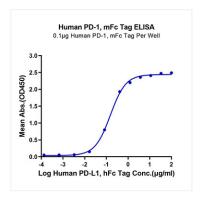
Recombinant Human PD-1/PDCD1/CD279 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



The purity of Active Recombinant Human PD-1/PDCD1/CD279 Protein is greater than 95% as determined by SEC-HPLC.



Immobilized Human PD-1, mFc Tag at 0.5µg/ml (100µl/Well). Dose response curve for Biotinylated Anti-PD-1 Ab., hFc Tag with the EC50 of 68ng/ml determined by ELISA.



Immobilized Human PD-1, mFc Tag at $1\mu g/ml$ (100 μ l/well) on the plate. Dose response curve for Human PD-L1, hFc Tag with the EC50 of 0.15 $\mu g/ml$ determined by ELISA.