# Recombinant Human PD-1/PDCD1/CD279 Protein

## Catalog No.: RP00403

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### Sequence Information

| Species | Gene ID |
|---|---|
| Human | 5133 |
| **Swiss Prot** | **Tags** |
| Q15116-1 | C-His |

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

### Product Information

| Source | Purification |
|---|---|
| HEK293 cells | ≥ 95 % as determined by SDS-PAGE;≥ 95 % as determined by HPLC. |

| Calculated MW | Observed MW |
|---|---|
| 17 kDa | 38-50 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**
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 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.

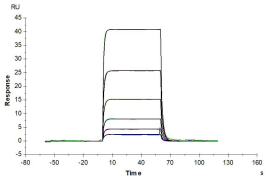
**Contact**

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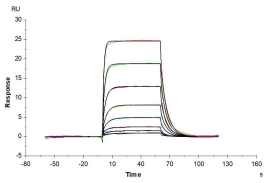


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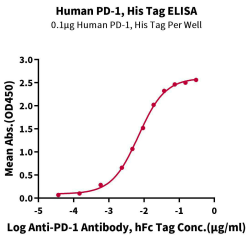
## Validation Data



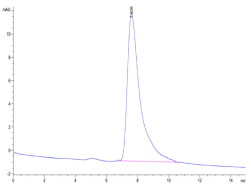
Human PD-L1, hFc Tag captured on CM5 Chip via Protein A can bind Human PD-1, His Tag with an affinity constant of 2.20 μM as determined in SPR assay (Biacore T200).



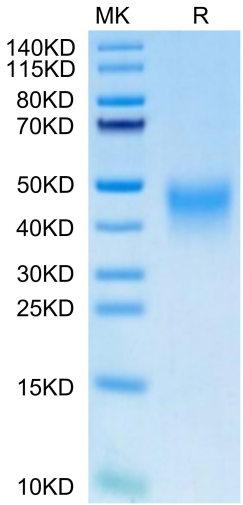
Human PD-L2, hFc Tag captured on CM5 Chip via Protein A can bind Human PD-1, His Tag with an affinity constant of 0.21 μM as determined in SPR assay (Biacore T200).




Immobilized Human PD-1, His Tag at 1 μg/mL (100 μL/Well). Dose response curve for Anti-PD-1 Antibody, hFc Tag with the $EC_{50}$ of 6.9ng/mL determined by ELISA (QC Test).



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




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