Human PD-1/PDCD1 Protein

PD1-HM101 Cat. No.



| Description | |
|---------------------|--|
| Source | Recombinant Human PD-1/PDCD1 Protein is expressed from HEK293 with His tag at the C-Terminus. |
| | It contains Leu25-Gln167. |
| Accession | Q15116-1 |
| Molecular Weight | The protein has a predicted MW of 17 kDa. Due to glycosylation, the protein migrates to 38-50 kDa based on Tris-Bis PAGE result. |
| Endotoxin | Less than 1EU per μg by the LAL method. |
| Purity | > 95% as determined by Tris-Bis PAGE |
| | > 95% as determined by HPLC |

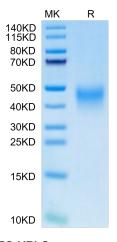
| Formulation and Storage | |
|-------------------------|---|
| Formulation | Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization. |
| Reconstitution | Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water. |
| Storage | -20 to -80°C for 12 months as supplied from date of receipt80°C for 3-6 months after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-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.

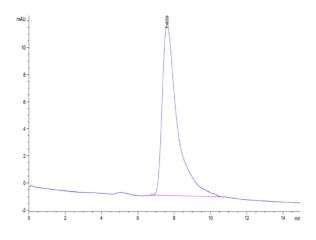
Assay Data

Tris-Bis PAGE



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

SEC-HPLC



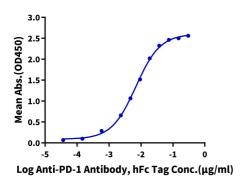
The purity of Human PD-1 is greater than 95% as determined by SEC-HPLC.

KAGTUS

Assay Data

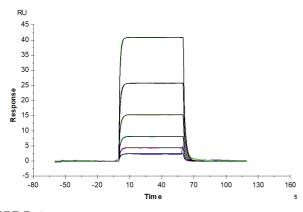
ELISA Data

Human PD-1, His Tag ELISA 0.1µg Human PD-1, His Tag Per Well



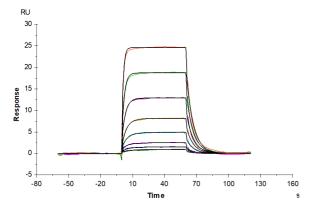
Immobilized Human PD-1, His Tag at 1µg/ml (100µl/Well). Dose response curve for Anti-PD-1 Antibody, hFc Tag with the EC50 of 6.9ng/ml determined by ELISA (QC Test).

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

SPR Data



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