

Biotinylated Human PD-1/PDCD1 Protein

Cat. No. PD1-HM501B

Description

Source	Recombinant Biotinylated Human PD-1/PDCD1 Protein is expressed from HEK293 with hFc tag and Avi tag at the C-Terminus. It contains Leu25-Gln167.
Accession	Q15116-1
Molecular Weight	The protein has a predicted MW of 44.7 kDa. Due to glycosylation, the protein migrates to 65-72 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

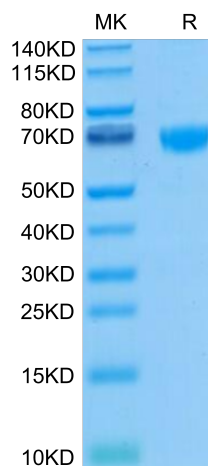
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°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.

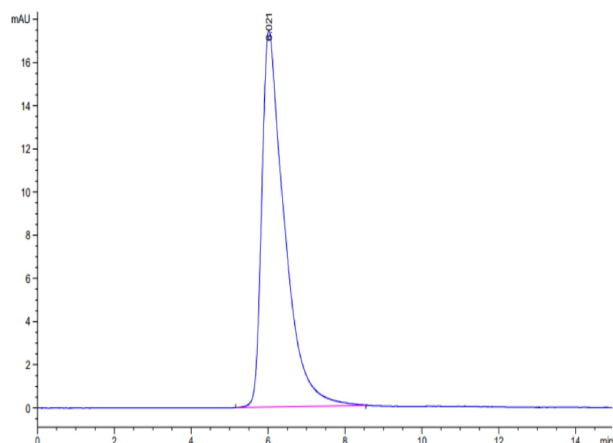
Assay Data

Tris-Bis PAGE



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

SEC-HPLC



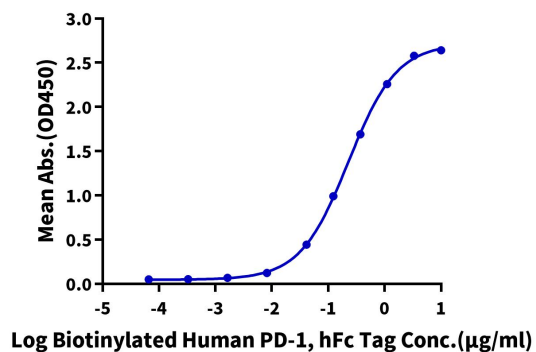
The purity of Biotinylated Human PD-1 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Biotinylated Human PD-1, hFc Tag ELISA

0.2 μ g Human PD-L1, mFc Tag Per Well



Immobilized Human PD-L1, mFc tag at 2 μ g/ml (100 μ l/Well). Dose response curve for Biotinylated Human PD-1, hFc tag with the EC50 of 0.23 μ g/ml determined by ELISA.