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# PD-1 Protein (AA 25-167) (Fc Tag, Biotin)

3 Images



Go to Product page

#### Overview

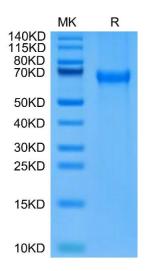
Quantity:	100 μg
Target:	PD-1 (PDCD1)
Protein Characteristics:	AA 25-167
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PD-1 protein is labelled with Fc Tag,Biotin.

### **Product Details**

Purpose:	Biotinylated Mouse PD-1/PDCD1 Protein (Primary Amine Labeling)
Sequence:	Leu25-Gln167
Characteristics:	Recombinant Biotinylated Mouse PD-1/PDCD1 Protein (Primary Amine Labeling) is expressed from HEK293 with hFc tag at the C-Terminus.It contains Leu25-Gln167.
Purity:	> 95 % as determined by Tris-Bis PAGE,> 95 % as determined by HPLC
Sterility:	0.22 μm filtered
Endotoxin Level:	Less than 1EU per μg by the LAL method.
Biological Activity Comment:	The affinity constant of 1.32 $\mu M$ as determined in SPR assay (Biacore T200). See testing image for detail.

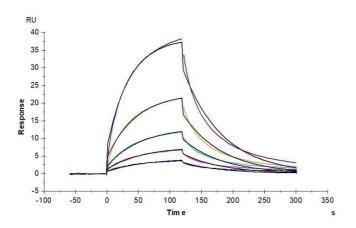
## **Target Details**

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Target:	PD-1 (PDCD1)
Alternative Name:	PD-1 (PDCD1 Products)
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.
Molecular Weight:	42.9 kDa. Due to glycosylation, the protein migrates to 60-70 kDa based on Tris-Bis PAGE result.
NCBI Accession:	NP_032824
Pathways:	Cancer Immune Checkpoints
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu$ g/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-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.
Expiry Date:	12 months



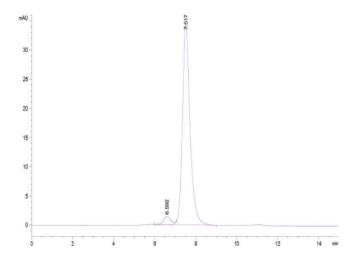
#### **SDS-PAGE**

**Image 1.** Biotinylated Mouse PD-1 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



#### **Surface Plasmon Resonance**

**Image 2.** Mouse PD-L1, hFc Tag immobilized on CM5 Chip can bind Biotinylated Mouse PD-1, hFc Tag with an affinity constant of 1.32  $\mu$ M as determined in SPR assay (Biacore T200).



# Size-exclusion chromatography-High Pressure Liquid Chromatography

**Image 3.** The purity of Biotinylated Mouse PD-1 is greater than 95 % as determined by SEC-HPLC.