

Datasheet for ABIN7275421

**PD-1 Protein (AA 25-167) (His-Avi Tag,Biotin)****4** Images[Go to Product page](#)

## Overview

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

## Product Details

Purpose:	Biotinylated Human PD-1/PDCD1 Protein
Sequence:	Leu25-Gln167
Characteristics:	Recombinant Biotinylated Human PD-1/PDCD1 Protein is expressed from HEK293 with His tag and Avi 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:	Immobilized Biotinylated Human PD-1, His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Anti-PD-1 Antibody, hFc Tag with the EC50 of 14.0ng/ml determined by ELISA. The affinity constant of 2.356 µM as determined in SPR assay (Biacore T200). See testing image for detail.

## Target Details

Target:	PD-1 (PDCD1)
Alternative Name:	PD-1 ( <a href="#">PDCD1 Products</a> )
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:	18.9 kDa. Due to glycosylation, the protein migrates to 40-50 kDa based on Tris-Bis PAGE result.
Pathways:	<a href="#">Cancer Immune Checkpoints</a>

## Application Details

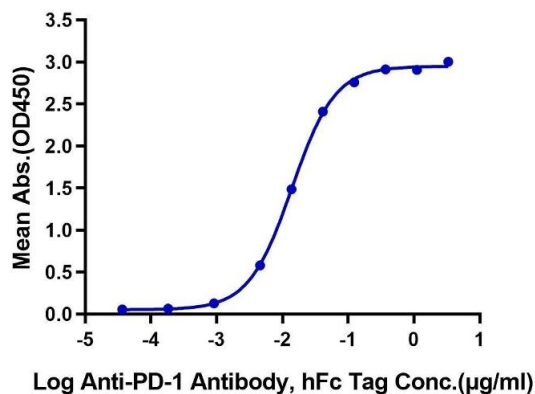
Restrictions:	For Research Use only
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## Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/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

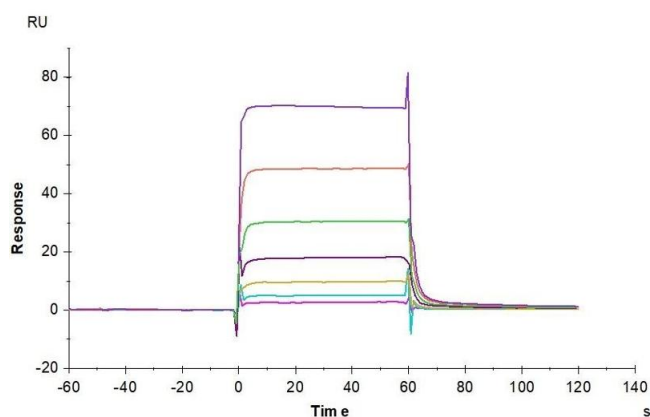
**Biotinylated Human PD-1, His Tag ELISA**

0.05µg Biotinylated Human PD-1, His Tag Per Well



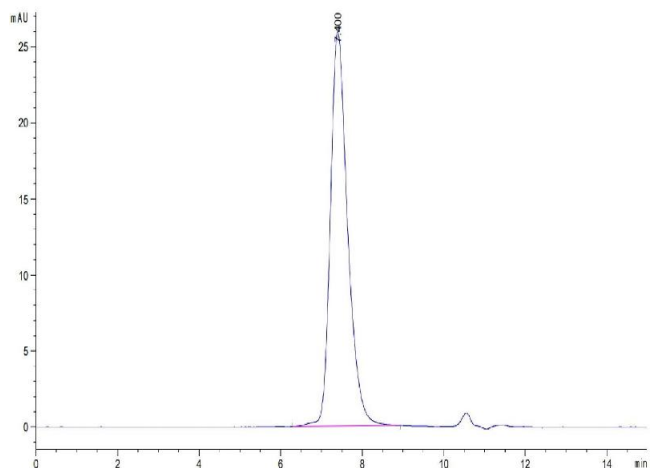
**ELISA**

**Image 1.** Immobilized Biotinylated Human PD-1, His Tag at 0.5 µg/mL (100 µL/Well) on the plate. Dose response curve for Anti-PD-1 Antibody, hFc Tag with the EC<sub>50</sub> of 14.0 ng/mL determined by ELISA.



**Surface Plasmon Resonance**

**Image 2.** Human PD-L1, hFc Tag captured on CM5 Chip via Protein A can bind Biotinylated Human PD-1, His-Avi Tag with an affinity constant of 2.356 µM as determined in SPR assay (Biacore T200).



**Size-exclusion chromatography-High Pressure Liquid Chromatography**

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

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7275421.