

Datasheet for ABIN7275419  
**PD-1 Protein (AA 25-167) (Fc Tag)**



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6 Images

## 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 Fc Tag.

## Product Details

Purpose:	Human PD-1/PDCD1 Protein
Sequence:	Leu25-Gln167
Characteristics:	Recombinant Human PD-1/PDCD1 Protein 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:	Immobilized Human PD-1, hFc Tag at 0.5µg/ml (100µl/Well). Dose response curve for Biotinylated Anti-PD-1 Ab., hFc Tag with the EC50 of 31.2ng/ml determined by ELISA. The affinity constant of 0.344 µM 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 ( <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:	42.6 kDa. Due to glycosylation, the protein migrates to 65-72 kDa based on Tris-Bis PAGE result.
Pathways:	<a href="#">Cancer Immune Checkpoints</a>

## Application Details

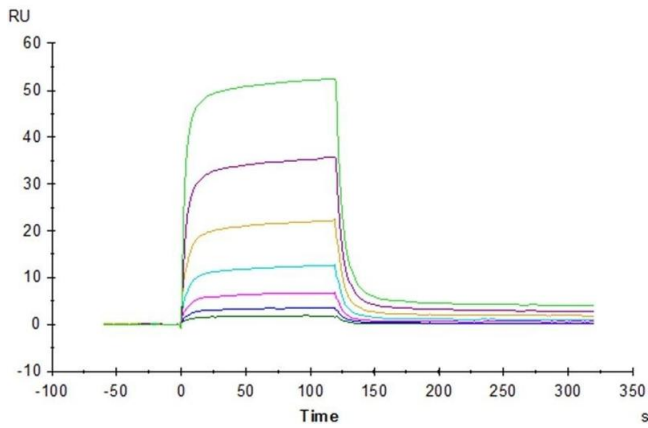
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Restrictions:	For Research Use only
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## Handling

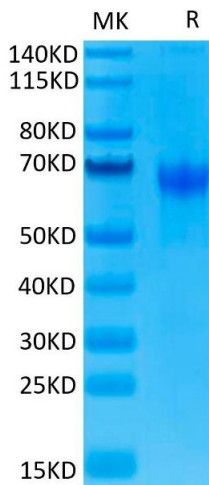
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Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in 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



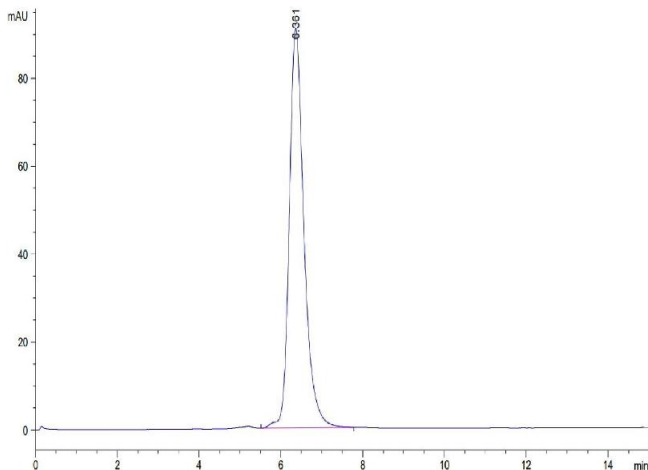
### Surface Plasmon Resonance

**Image 1.** Human PD-1, hFc Tag captured on CM5 Chip via Protein A can bind Biotinylated Human PD-L2, His-Avi Tag with an affinity constant of 0.344  $\mu$ M as determined in SPR assay (Biacore T200).



### SDS-PAGE

**Image 2.** Human PD-1 on Tris-Bis PAGE under reduced. The purity is greater than 95 % .



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

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

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN7275419.