

# Mouse PD-1/PD-1 Protein, Ultra Low Endotoxin

Cat. No. PD1-MM201-UL

## Description

Source	Recombinant Mouse PD-1/PD-1 Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Leu25-Gln167.
Accession	NP_032824
Molecular Weight	The protein has a predicted MW of 42.9 kDa. Due to glycosylation, the protein migrates to 60-70 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.01 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris 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	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months 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

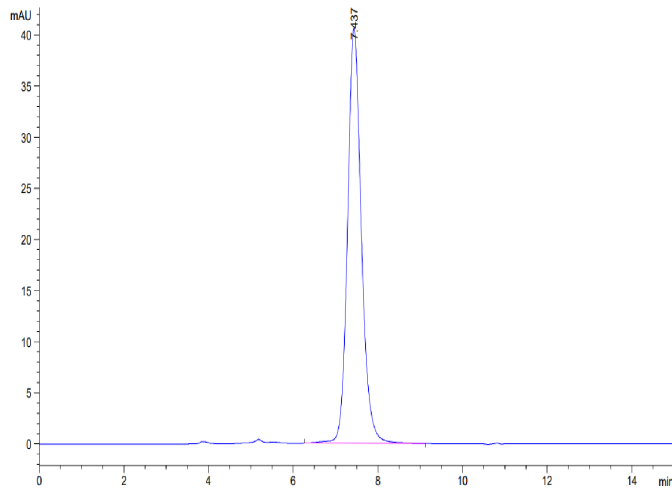
### Bis-Tris PAGE



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

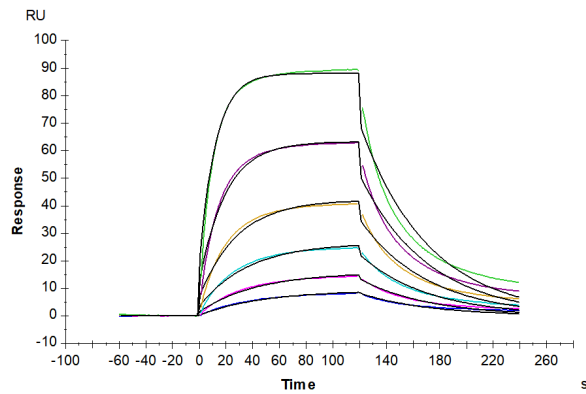
### SEC-HPLC

## Assay Data



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

## SPR Data



Mouse PD-L1, His Tag captured on CM5 Chip via anti-his antibody can bind Mouse PD-1, hFc Tag with an affinity constant of 0.62  $\mu\text{M}$  as determined in SPR assay (Biacore T200).