Human PD-1/PDCD1 Protein

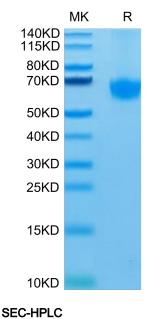
Cat. No. PD1-HM301

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Description	
Source	Recombinant Human PD-1/PDCD1 Protein is expressed from HEK293 with mFc (IgG1) tag at the C-Terminus.
	It contains Leu25-GIn167.
Accession	Q15116-1
Molecular Weight	The protein has a predicted MW of 41.6 kDa. Due to glycosylation, the protein migrates to 64-68 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU 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 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before Iyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Background	
	Programmed Death-1 receptor (PD-1), also known as CD279, is type I transmembrane protein belonging to the CD28 family of immune regulatory receptors.PD1 is a inhibitory receptor on antigen activated T-cells that plays a critical role in induction and maintenance of immune tolerance to self. Delivers inhibitory signals upon binding to ligands CD274/PDCD1L1 and CD273/PDCD1LG2 (PubMed:21276005). Following T-cell receptor (TCR) engagement, PDCD1 associates with CD3-TCR in the immunological synapse and directly inhibits T-cell activation.
Assav Data	

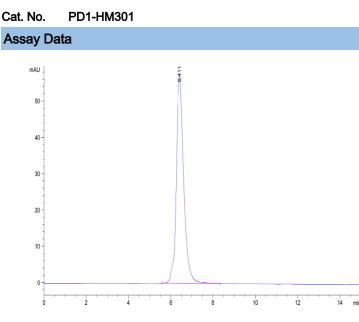
Assay Data

Bis-Tris PAGE



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

Human PD-1/PDCD1 Protein



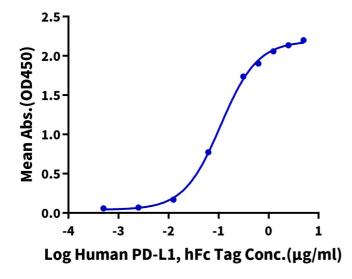
The purity of Human PD-1 is greater than 95% as determined by SEC-HPLC.

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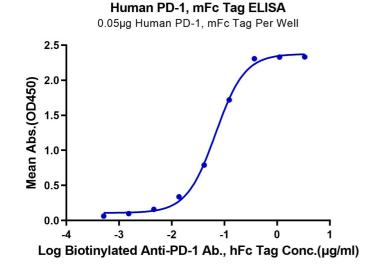
Human PD-1, mFc Tag ELISA

0.2µg Human PD-1, mFc Tag Per Well



Immobilized Human PD-1, mFc Tag at 2μ g/ml (100 μ l/well) on the plate. Dose response curve for Human PD-L1, hFc Tag with the EC50 of 0.11 μ g/ml determined by ELISA (QC Test).

ELISA Data



Immobilized Human PD-1, mFc Tag at 0.5µg/ml (100µl/Well). Dose response curve for Biotinylated Anti-PD-1 Ab., hFc Tag with the EC50 of 68ng/ml determined by ELISA.

