Human PD-1/PDCD1 Protein, Ultra Low Endotoxin

Cat. No. PD1-HM301-UL

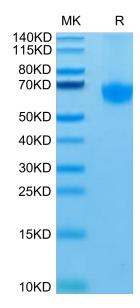


Cat. 140. 1 D 1-111VI	
Description	
Source	Recombinant Human PD-1/PDCD1 Protein is expressed from HEK293 with mFc (IgG1) tag at the C-Terminus.
	It contains Leu25-Gln167.
Accession	Q15116-1
Molecular Weight	The protein has a predicted MW of 41.6 kDa. Due to glycosylation, the protein migrates to 64-68 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.01 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC
Formulation and St	torage
Formulation	Lyophilized from 0.22µm 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 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

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.

Assay Data

Bis-Tris PAGE

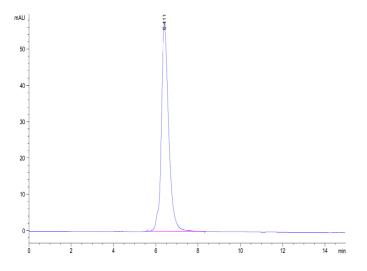


Human PD-1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

KAGTUS

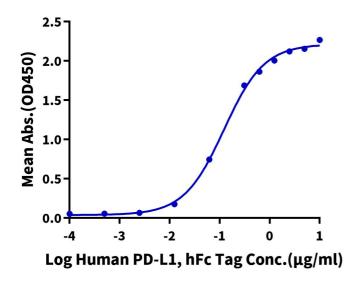
Assay Data



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

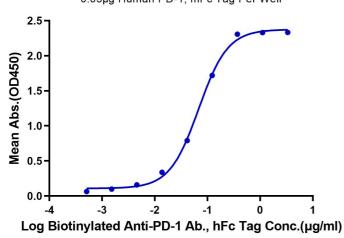
ELISA Data

Human PD-1, mFc Tag ELISA 0.2µg Human PD-1, mFc Tag Per Well



Immobilized Human PD-1, mFc Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Human PD-L1, hFc Tag with the EC50 of 0.12µg/ml determined by ELISA (QC Test).

Human PD-1, mFc Tag ELISA 0.05μg Human PD-1, mFc Tag Per Well



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.