

Feline PD-1/PDCD1 Protein

Cat. No. PD1-FM201



Description

Source	Recombinant Feline PD-1/PDCD1 Protein is expressed from HEK293 with hFc (IgG1) tag at the C-terminus. It contains Leu25-Gly168.
Accession	A9YUA6
Molecular Weight	The protein has a predicted MW of 42.09 kDa. Due to glycosylation, the protein migrates to 60-80 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.1 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 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.

Assay Data

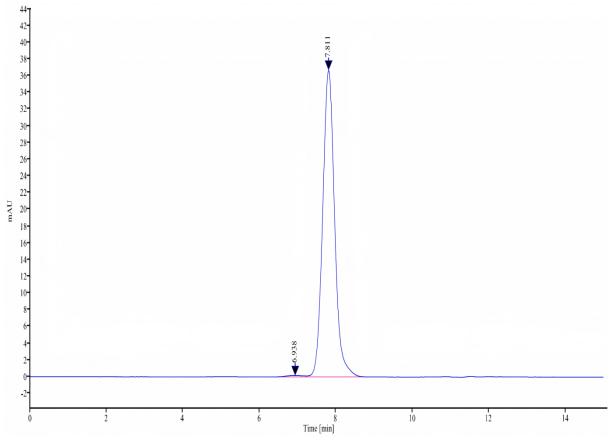
Bis-Tris PAGE



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

SEC-HPLC

Assay Data



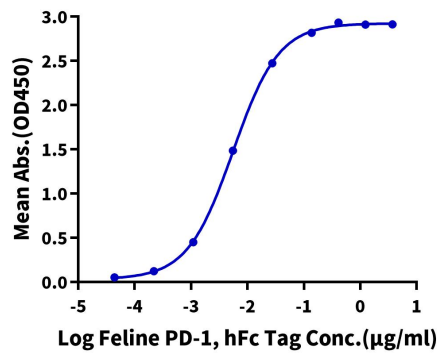
The purity of Feline PD-1 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Feline PD-1, hFc Tag ELISA

0.1µg Biotinylated Human PD-L1, His Tag Per Well



Immobilized Biotinylated Human PD-L1, His Tag (Cat. PDL-HM410B) at 1µg/ml (100µl/well) on the streptavidin precoated plate(5µg/ml). Dose response curve for Feline PD-1, hFc Tag with the EC50 of 5.5ng/ml determined by ELISA.