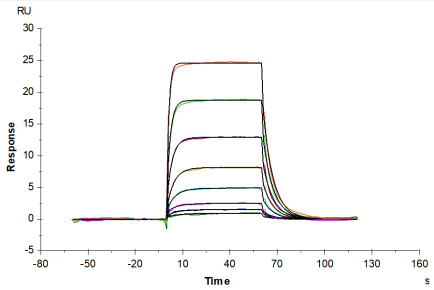
Bioactive CellTx™ HuPro®

PDCD1 (Human) Recombinant Protein

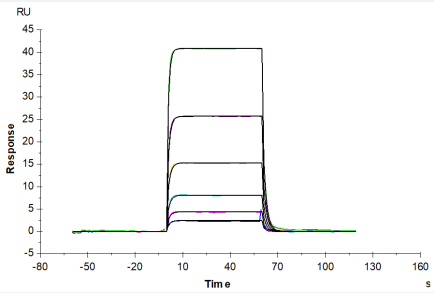
Catalog # P10171 Size 100 ug

Applications



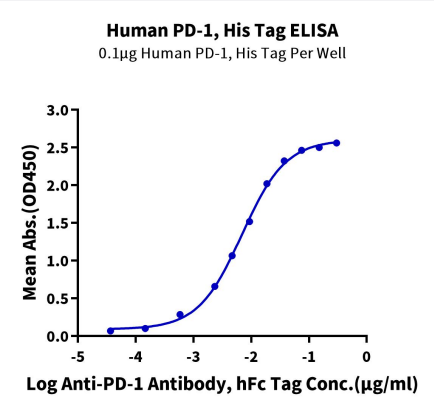
Surface Plasmon Resonance

Human PD-L2, hFc Tag captured on CM5 Chip via Protein A can bind Human PD-1, His Tag with an affinity constant of 0.21 uM as determined in SPR assay (Biacore T200).



Surface Plasmon Resonance

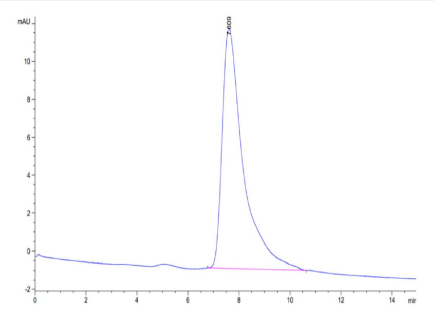
Human PD-L1, hFc Tag captured on CM5 Chip via Protein A can bind Human PD-1, His Tag with an affinity constant of 2.20 uM as determined in SPR assay (Biacore T200).



ELISA

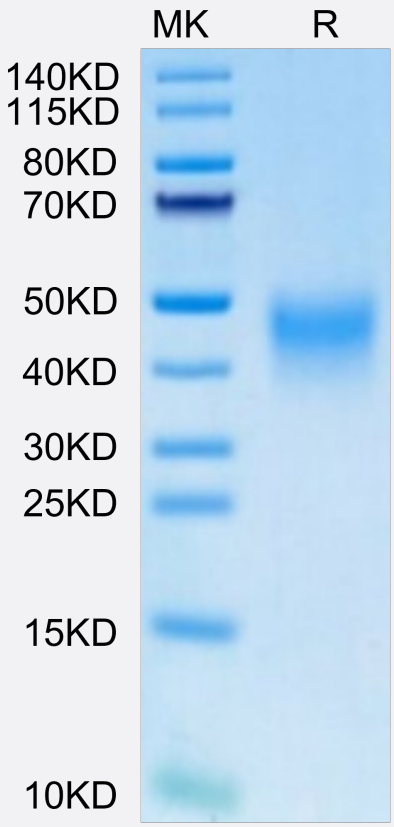
Immobilized Human PD-1, His Tag at 1 ug/ml (100 ul/Well). Dose response curve for Anti-PD-1 Antibody, hFc Tag with the EC_{50} of 6.9 ng/ml determined by ELISA (QC Test).

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SEC-HPLC

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



Tris-Bis PAGE

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

Specification

Product Description	Human PDCD1 (Q15116-1, Leu25-Gln167) partial recombinant protein with His tag at C-terminus expressed in HEK293 cells.
Sequence	Leu25-Gln167
Host	Human
Theoretical MW (kDa)	17
Form	Lyophilized
Preparation Method	Mammalian cell (HEK293) expression system
Purity	> 95% as determined by Tris-Bis PAGE;> 95% as determined by HPLC

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Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Quality Control Testing	ELISA and SEC-HPLC ELISA Immobilized Human PD-1, His Tag at 1 ug/ml (100 ul/Well). Dose response curve for Anti-PD-1 Antibody, hFc Tag with the EC_{50} of 6.9 ng/ml determined by ELISA (QC Test). SEC-HPLC The purity of Human PD-1 is greater than 95% as determined by SEC-HPLC. Tris-Bis PAGE Human PD-1 on Tris-Bis PAGE under reduced. The purity is greater than 95%.
Recommend Usage	Biological Activity ELISA SEC-HPLC SPR Tris-Bis PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from filtered solution in PBS, pH 7.4 (5% trehalose).
Storage Instruction	After reconstitution with deionized water to a final concentration more than 100 ug/ml, store at 4°C for 1 week. For long term storage, store at -80°C for 1 year. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- Enzyme-linked Immunoabsorbent Assay
- Surface Plasmon Resonance

  Human PD-L2, hFc Tag captured on CM5 Chip via Protein A can bind Human PD-1, His Tag with an affinity constant of 0.21 uM as determined in SPR assay (Biacore T200).

- Surface Plasmon Resonance

  Human PD-L1, hFc Tag captured on CM5 Chip via Protein A can bind Human PD-1, His Tag with an affinity constant of 2.20 uM as determined in SPR assay (Biacore T200).

Gene Info — PDCD1

Entrez GeneID	5133
Protein Accession#	Q15116-1

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Gene Name	PDCD1
Gene Alias	CD279, PD1, SLEB2, hPD-1, hPD-l
Gene Description	programmed cell death 1
Omim ID	152700 600244
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a cell surface membrane protein of the immunoglobulin superfamily. This protein is expressed in pro-B-cells and is thought to play a role in their differentiation. In mice, expression of this gene is induced in the thymus when anti-CD3 antibodies are injected and large numbers of thymocytes undergo apoptosis. Mice deficient for this gene bred on a BALB/c background developed dilated cardiomyopathy and died from congestive heart failure. These studies suggest that this gene product may also be important in T cell function and contribute to the prevention of autoimmune diseases. [provided by RefSeq
Other Designations	-

Pathway

- Cell adhesion molecules (CAMs)
- T cell receptor signaling pathway

Disease

- Addison Disease
- Alveolitis
- Arthritis
- Autoimmune Diseases
- Carcinoma
- Choriocarcinoma
- Colitis
- Crohn Disease
- Diabetes Mellitus
- Disease Progression

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- Disease Susceptibility
- Genetic Predisposition to Disease
- Graves Disease
- Hydatidiform Mole
- Inflammation
- Kidney Diseases
- Leukemia
- Liver Cirrhosis
- Lupus Erythematosus
- Lupus Nephritis
- Mucocutaneous Lymph Node Syndrome
- Multiple Sclerosis
- Myocardial Infarction
- Neovascularization
- Polyendocrinopathies
- Spondylitis
- Uterine Cervical Neoplasms
- Uveomeningoencephalitic Syndrome
- Vasculitis
- Wegener Granulomatosis

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