

PD-1 active protein

Recombinant human PD-1 protein

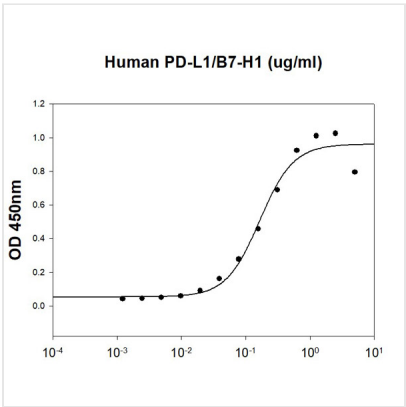
CATALOG # AAA48399	HOST HEK293	APPLICATIONS SDS-Page
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PRODUCT SYNONYMS

PD-1; Recombinant human PD-1 protein; Programmed cell death protein 1; PDCD1; CD279; hPD-1; hPD-I; hSLE1; PD1; SLEB2; PD-1 active protein

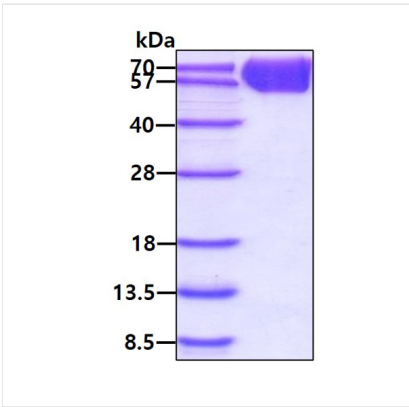
PRODUCT SPECIFICATIONS

Host	HEK293
Purity/Purification	>95% by SDS-PAGE
Form/Format	Liquid. In Phosphate-Buffered Saline (pH7.4) containing 10% glycerol
Concentration	0.5mg/ml (determined by absorbance at 280nm) (varies by lot)
Sequence Positions	21-170aa
Sequence	PGWFLDSPDR PWNPTFSPA LLVTEGDNA TFTCSFSNTS ESFVLNWYRM SPSNQTDKLA AFPEDRSQPG QDCRFRTVL PNGRDFHMSV VRARRNSGT YLCGAISLAP KAQIKESLRA ELRVTERRAE VPTAHPSPSP RPAGQFQTLV
Applicable Applications for PD-1 active protein	Bioactivity, SDS-PAGE
Endotoxin	<1 EU per 1ug of protein (determined by LAL method)
Species	Human
Tag	hIgG-Tag
Predicted N-term	Pro21
Bioactivity	Measured by its binding ability in a functional ELISA with Human PD-L1/B7-H1.
Preparation and Storage	Can be stored at +2C to +8 degree C for 1 week. For long term storage, aliquot and store at -20C to -80 degree C. Avoid repeated freezing and thawing cycles.



Bioactivity

Human PDCD1 is coated at 5 ug/ml (100 ul/well) can bind Human PD-L1/B7-H1 (CAT# ATGP3631) in a Functional ELISA assay.



SDS-PAGE

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

ADDITIONAL INFORMATION

Related Product Information for PD-1 active protein	PD-1, also known as programmed cell death protein 1, is a type 1 transmembrane glycoprotein, and is an immune-receptor belonging to the CD28/CTLA4 family. This protein is expressed on the surface of activated T-cell, B-cell, macrophages, myeloid cells and subset of thymocytes. It 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. This prevents autoimmune diseases, but it can also prevent the immune system from killing cancer cells. This protein is an immune checkpoint and guards against autoimmunity through two mechanisms. It promotes apoptosis of antigen-specific T-cells in lymph nodes, And reduces apoptosis in regulatory T cells. PD-1 inhibitors, a new class of drugs that block PD-1, activate the immune system to attack tumors and are used to treat certain types of cancer. Blocking the PD-1 and PD-L1 interaction has proven successful in treating many different cancer type. Recombinant human PD-1, fused to hlgG-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.
Product Categories/Family for PD-1 active protein	Immunology; Apoptosis; Proteins
References	Ishida Y., et al, (1992) EMBO J. 11:3887-3895. Lastwika KJ., et al, (2016) Cancer Res. 76:227-238.

NCBI AND UNIPROT INFORMATION

NCBI GI #	167857792
NCBI GeneID	5133
NCBI Accession #	NP_005009.2
NCBI GenBank Nucleotide #	NM_005018.2
UniProt Accession #	Q15116; O00517; Q8IX89
Molecular Weight	31,647 Da
NCBI Official Full Name	programmed cell death protein 1
NCBI Official Synonym Full Names	programmed cell death 1
NCBI Official Symbol	PDCD1
NCBI Official Synonym Symbols	PD1; PD-1; CD279; SLEB2; hPD-1; hPD-l; hSLE1
NCBI Protein Information	programmed cell death protein 1; protein PD-1; systemic lupus erythematosus susceptibility 2
UniProt Protein Name	Programmed cell death protein 1
UniProt Gene Name	PDCD1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/hek293-active-protein/pd-1/48399>