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# Recombinant human PD-1 protein

Catalog Number: ATGP3612

# **PRODUCT INFORMATION**

# **Expression system**

Baculovirus

#### **Domain**

21-170aa

#### UniProt No.

015116

#### **NCBI Accession No.**

NP 005009.2

#### **Alternative Names**

Programmed cell death protein 1, PDCD1, CD279, hPD-1, hPD-1, hSLE1, PD-1, PD1, SLEB2

# **PRODUCT SPECIFICATION**

### **Molecular Weight**

44 kDa (392aa)

#### Concentration

0.5mg/ml (determined by absorbance at 280nm)

#### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

#### **Purity**

> 90% by SDS-PAGE

#### **Endotoxin level**

< 1 EU per 1ug of protein (determined by LAL method)

#### Tag

hlgG-His-Tag

# **Application**

SDS-PAGE

# **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **Description**

PDCD1, 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. Also, it inhibits the T-cell proliferation and production of related cytokines including IL-1, IL-4 and IL-10. As a cell surface molecule, it regulates the adaptive



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immune response. Recombinant human PDCD1, fused to hlgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

# **Amino acid Sequence**

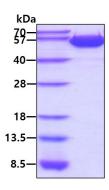
<ADP>PGWFLDS PDRPWNPPTF SPALLVVTEG DNATFTCSFS NTSESFVLNW YRMSPSNQTD KLAAFPEDRS QPGQDCRFRV TQLPNGRDFH MSVVRARRND SGTYLCGAIS LAPKAQIKES LRAELRVTER RAEVPTAHPS PSPRPAGQFQ TLV<LEPKSCD KTHTCPPCPA PELLGGPSVF LFPPKPKDTL MISRTPEVTC VVVDVSHEDP EVKFNWYVDG VEVHNAKTKP REEQYNSTYR VVSVLTVLHQ DWLNGKEYKC KVSNKALPAP IEKTISKAKG QPREPQVYTL PPSRDELTKN QVSLTCLVKG FYPSDIAVEW ESNGQPENNY KTTPPVLDSD GSFFLYSKLT VDKSRWQQGN VFSCSVMHEA LHNHYTQKSL SLSPGKHHHH HH>

#### **General References**

Ishida Y., et al, (1992) EMBO J. 11:3887-3895. Lastwika KJ., et al, (2016) Cancer Res. 76:227-238.

## **DATA**

#### **SDS-PAGE**



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

