Recombinant human PD-1 protein

Catalog Number: ATGP3612

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
21-170aa

UniProt No.
Q15116

NCBI Accession No.
NP_005009.2

Alternative Names
Programmed cell death protein 1, PDCD1, CD279, hPD-1, hPD-l, 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
hIgG-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 hIgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

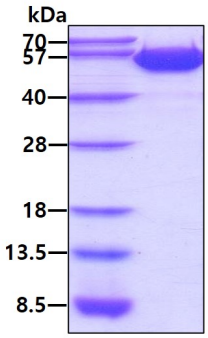
<ADP>PGWFLDS PDRPWNPPTF SPALLVVTEG DNATFTCSFS NTSESFVLNW YRMSPSNQTD KLAAFPEDRS QPGQDCRFRV TQLPNGRDFH MSVVRARRND SGTYLCGAIS LAPKAQIKES LRAELRVTER RAEVPTAHPS PSPRPAGQFQ TLV<LEPKSCD KTHTCPPCPA PELLGGPSVF LFPPKPKDTL MISRTPEVTC VVVDVSHEDP EVKFNWYVDG VEVHNAKTKP REEQYNSTYR VVSVLTVLHQ DWLNGKEYKC KVSNKALPAP IEKTISKAKG 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