Recombinant human PD-L1/B7-H1 protein

Catalog Number: ATGP3631

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
19-238aa

UniProt No.
Q9NZQ7

NCBI Accession No.
NP_054862.1

Alternative Names
Programmed cell death 1 ligand 1 isoform, CD274, B7-H, B7H1, PD-L1, PDCD1L1, PDCD1LG1, PDL1

PRODUCT SPECIFICATION

Molecular Weight
52.5 kDa (462aa)

Concentration
1mg/ml (determined by absorbance at 280nm)

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

Purity
> 95% by SDS-PAGE

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

Biological Activity
Measured by its binding ability in a functional ELISA with Human PD-1 (CAT# ATGP4027). The ED50 range ≤ 0.5 ug/ml.

Tag
hIgG-His-Tag

Application
SDS-PAGE, Bioactivity

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

Recombinant human PD-L1/B7-H1 protein

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Description

CD274, also known as programmed cell death 1 ligand 1 isoform, is a member of the growing B7 family of immune molecules. This protein is involved in the regulation of cellular and humoral immune responses. It suppresses T cell activation and proliferation and induces the apoptosis of activated T cells. Also, it plays a role in the development of immune tolerance by promoting T cell anergy and enhancing regulatory T cell development. Recombinant human CD274, fused to hIgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

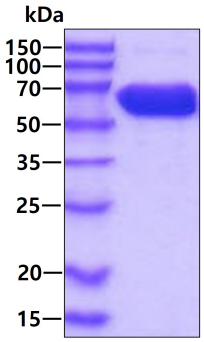
<ADL>FTVTVPK DLYVVEYGSN MTIECKFPVE KQLDLAALIV YWEMEDKNII QFVHGEEDLK VQHSSYRQRA RLLKDQLSLG NAALQITDVK LQDAGVYRCM ISYGGADYKR ITVKVNAPYN KINQRILVVD PVTSEHELTC QAEGYPKAEV IWTSSDHQVL SGKTTTTNSK REEKLFNVTS TLRINTTTNE IFYCTFRRLD PEENHTAELV IPELPLAHPP NER<LEPKSCD KTHTCPPCPA PELLGGPSVF LFPPKPKDTL MISRTPEVTC VVVDVSHEDP EVKFNWYVDG VEVHNAKTKP REEQYNSTYR VVSVLTVLHQ DWLNGKEYKC KVSNKALPAP IEKTISKAKG QPREPQVYTL PPSRDELTKN QVSLTCLVKG FYPSDIAVEW ESNGQPENNY KTTPPVLDSD GSFFLYSKLT VDKSRWQQGN VFSCSVMHEA LHNHYTQKSL SLSPGKHHHH HH>

General References

Dong H., et al, (1999) Nat. Med. 5:1365-1369.
Trabattoni D., et al, (2003) Blood 101:2514-2520.

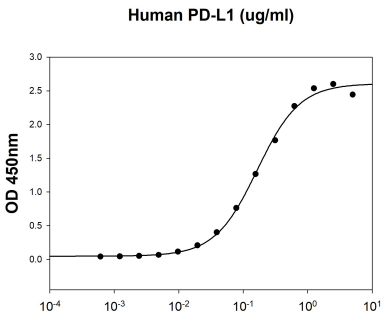
DATA

SDS-PAGE



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

Biological Activity



Human PD-1 (CAT# ATGP4027) is coated at 5 ug/ml (100 ul/well) can bind Human PD-L1. The ED50 range ≤ 0.5 ug/ml.