

Recombinant human CD27 Ligand/CD70 protein

Catalog Number: ATGP3336

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

39-193aa

UniProt No.

P32970

NCBI Accession No.

NP_001243.1

Alternative Names

CD70 antigen, CD27L, CD27LG, TNFSF7, tumor necrosis factor superfamily member 7

PRODUCT SPECIFICATION

Molecular Weight

18.2 kDa (164aa)

Concentration

0.25mg/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)

Biological Activity

Measured by its binding ability in a functional ELISA with Human CD27/TNFRSF7 (CAT# ATGP3416).

Tag

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

Description

CD70, also known as CD70 antigen, is a transmembrane protein in the TNF receptor superfamily. It functions as

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a co-stimulatory molecule that supports lymphocyte activation and survival. This protein binds to the transmembrane glycoprotein CD27 ligand/CD70 which is expressed on activated B cells, activated T cells, and dendritic cells. Binding of CD70 to its receptor CD27 induces in priming, effector functions, differentiation and memory formation of T cell activation, and thus is proliferation of co-stimulated T cells, as well as the generation of cytolytic T cells. Recombinant human CD70, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

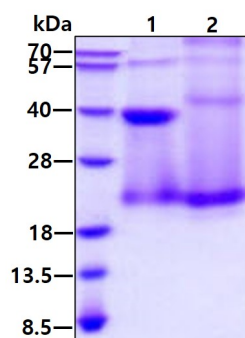
<ADP>QRFAQAQ QQLPLESLGW DVAELQLNHT GPQQDPRLYW QGGPALGRSF LHGPELDKGQ LRIHRDGIYM
VHIQVTLAIC SSTTASRHHP TTLAVGICSP ASRSISLLRL SFHQGCTIAS QRLTPLARGD TLCTNLTGTL LPSRNTDETF
FGVQWVRP<HH HHHH>

General References

Welten SP., et al. (2013) J. Virol. 87:6851-6865.
Polak ME., et al. (2012) J. Invest. Dermatol. 132:1636-1644.

DATA

SDS-PAGE



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

Lane 1: non-reducing conditions

Lane 2: reducing conditions

Biological Activity

Human CD27 Ligand/TNFSF7 is coated at 10 ug/ml (100 ul/well) can bind Human CD27/TNFRSF7 (CAT# ATGP3416) in a Functional ELISA assay.

