

Recombinant human TNFRSF7/CD27 protein

Catalog Number: ATGP4060

PRODUCT INFORMATION

Expression system

HEK293

Domain

20-191aa

UniProt No.

P26842

NCBI Accession No.

NP_001233.1

Alternative Names

CD27L receptor, T-cell activation antigen CD27, T14, Tumor necrosis factor receptor superfamily member 7, TNFRSF7, T cell activation antigen S152, TP55

PRODUCT SPECIFICATION

Molecular Weight

46.2kDa (411aa)

Concentration

0.5mg/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 CD27 Ligand/TNFSF7 (CAT# ATGP3336). The ED50 range \leq 0.8 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.

Recombinant human TNFRSF7/CD27 protein

Catalog Number: ATGP4060

BACKGROUND

Description

CD27, as known as TNFRSF7, is a member of the tumor necrosis factor receptor superfamily. It has been shown to play roles in lymphoid proliferation, differentiation, and apoptosis. It has an important role in the generation of T cell immunity and is an robust marker for normal memory B cells. Also, this protein plays a key role in regulating B-cell differentiation, activation and immunoglobulin synthesis. As a T and B cell co-stimulatory molecule, the activity of CD27 is governed by its TNF-like ligand CD 70 on lymphocytes and dendritic cells. It binds to ligand CD70, and CD27/CD70 co-stimulatory system promote T, B and NK cell responses and particularly the CTL response, and is a target in cancer immunotherapy. Recombinant human CD27, fused to hIgG-His-tag at C-terminus, was expressed in HEK293 and purified by using conventional chromatography techniques.

Amino acid Sequence

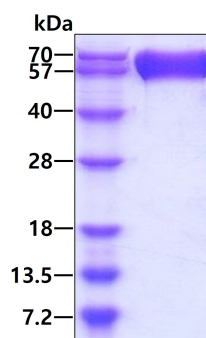
ATPAPKSCPE RHYWAQGKLC CQMCEPGTFL VKDCDQHRKA AQCDPCIPGV SFSPDHHTRP HCESCRHCNS GLLVRNCTIT ANAECACRNG WQCRDKECTE CDPLPNPSLT ARSSQALSPH PQPTHLPYVS EMLEARTAGH MQTLADFRQL PARTLSTHWP PQRSLCSSDF IR<LEPKSCDK THTCPPCPAP ELLGGPSVFL FPPKPKDTLM ISRTPEVTCV VVDVSHEDPE VKFNWYVDGV EVHNAKTKPR EEQYNSTYRV VSVLTVLHQD WLNGKEYKCK VSNKALPAPI EKTISKAKGQ PREPQVYITLP PSRDELTKNQ VSLTCLVKGF YPSDIAVEWE SNGQPENNYK TTPPVLDSDG SFFLYSKLTV DKSRWQQGNV FSCSVMHEAL HNHYTQKSLS LSPGKHHHHH H>

General References

Clemente A., et al. (2013) Clin. Exp. Immunol. 174:97-108.
Huang J., et al. (2013) J. Immunol. 190:6250-6258.

DATA

SDS-PAGE

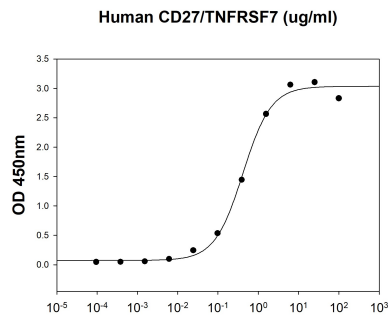


3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

Biological Activity

Recombinant human TNFRSF7/CD27 protein

Catalog Number: ATGP4060



Human CD27 Ligand/TNFSF7 (CAT# ATGP3336) is coated at 10 ug/ml (100 ul/well) can bind Human CD27/TNFRSF7. The ED50 range \leq 0.8 ug/ml.