

Recombinant human 4-1BB/CD137/TNFRSF9 protein

Catalog Number: ATGP3303

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

18-186aa

UniProt No.

Q07011

NCBI Accession No.

NP_001552

Alternative Names

Tumor necrosis factor receptor superfamily member 9, 4-1BB ligand receptor, CDw137, T-cell antigen 4-1BB homolog, T-cell antigen ILA, CD137

PRODUCT SPECIFICATION

Molecular Weight

45.3 kDa (411aa)

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)

Biological Activity

Measured by its binding ability in a functional ELISA with Human TNFSF9 (CAT# ATGP0308). The ED50 range \leq 50 ng/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 4-1BB/CD137/TNFRSF9 protein

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BACKGROUND

Description

TNFRSF9, also known as tumor necrosis factor receptor superfamily member 9, is a member of the TNF-receptor superfamily. This receptor contributes to the clonal expansion, survival, and development of T cells. It can also induce proliferation in peripheral monocytes, enhance T cell apoptosis induced by TCR/CD3 triggered activation, and regulate CD28 co-stimulation to promote Th1 cell responses. The expression of this receptor is induced by lymphocyte activation. TRAF adaptor proteins have been shown to bind to this receptor and transduce the signals leading to activation of NF-kappaB. Recombinant human TNFRSF9, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

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<ADL>FERTRSL QDPCSNCPAG TFCDNNRNQI CSPCPPNSFS SAGGQRTCDI CRQCKGVFRT RKECSSTSNA  
ECDCTPGFHC LGAGCSMCEQ DCKQGQELTK KGCKDCCFGT FNDQKRGICR PWTNCSLDGK SVLVNGTKER  
DVVCGPSPAD LSPGASSVTP PAPAREPGHS PQ<LEPKSCDK THTCPPCPAP ELLGGPSVFL FPPKPKDTLM ISRTPEVTCV  
VVDVSHEDPE VKFNWYVDGV EVHNAKTKPR EEQYNSTYRV VSVLTVLHQD WLNGKEYKCK VSNKALPAPI EKTISKAKGQ  
PREPQVYTL PPSRDELTKNQ VSLTCLVKGF YPSDIAVEWE SNGQPENNYK TTPPVLDSDG SFFLYSKLTV DKSRWQQGNV  
FSCSVMHEAL HNHYTQKSL S LSPGKHHHHH H>
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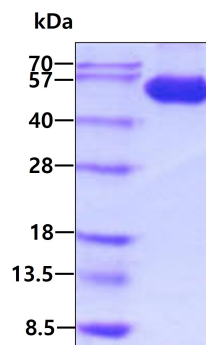
General References

Litjens NH., et al. (2013) Clin. Exp. Immunol. 174:179-191.

Lee SJ., et al. (2013) Eur. J. Immunol. 43:1839-1848.

DATA

SDS-PAGE



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

Biological Activity

Recombinant human 4-1BB/CD137/TNFRSF9 protein

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Human TNFSF9 (CAT# ATGP0308) is coated at 2 ug/ml (100 ul/well) can bind Human TNFRSF9. The ED50 range \leq 50 ng/ml.

