

Recombinant human 4-1BB Ligand/TNFSF9 protein

Catalog Number: ATGP0308

PRODUCT INFORMATION

Expression system

E.coli

Domain

71-254aa

UniProt No.

P41273

NCBI Accession No.

NP_003802

Alternative Names

Tumor necrosis factor ligand superfamily member 9, 4-1BB ligand, 4-1BBL, receptor 4-1BB ligand, homolog of mouse 4-1BB-L, CD137 ligand, CD137L

PRODUCT SPECIFICATION

Molecular Weight

23.8 kDa (222aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 100mM NaCl, 20% 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 TNFRSF9 (CAT# ATGP3303).

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

Recombinant human 4-1BB Ligand/TNFSF9 protein

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Description

4-1BB ligand is a type 2 transmembrane glycoprotein belonging to the TNF superfamily. 4-1BBL is expressed by activated B cells, macrophages, dendritic cells, activated T cells, neurons and astrocytes. The interaction of 4-1BB with 4-1BBL strongly regulates immunity and has been proposed to preferentially control T cell responses based on studies in various murine models of cancer, infectious disease and autoimmune disease. Recombinant human 4-1BB ligand, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

Amino acid Sequence

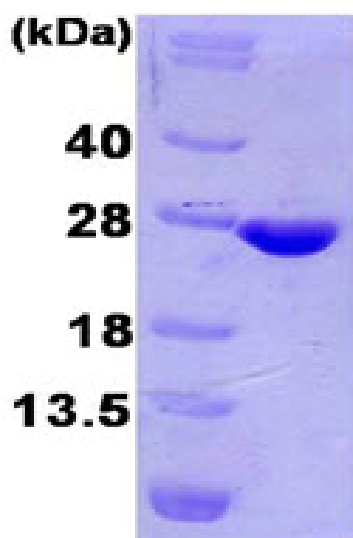
MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSHMRE GPELSPDDPA GLLDLRQGMF AQLVAQNVLL
IDGPLSWYSD PGLAGVSLTG GLSYKEDTKE LVVAKAGVYY VFFQLELRRV VAGEGSGSVS LALHLQPLRS AAGAAALALT
VDLPPASSEA RNSAFGFQGR LLHLSAGQRL GVHLHTEARA RHAWQLTQGA TVLGLFRVTP EIPAGLPSPR SE

General References

Lee SW., et al. (2008). Nat Immunol. 9(8):917-26
Sharma RK., et al. (2009). Cancer Res. 69(10):4319-26

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)

Biological Activity

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Human TNFSF9 is coated at 2 ug/ml (100 ul/well) can bind Human TNFRSF9 (CAT# ATGP3303) in a Functional ELISA assay.

