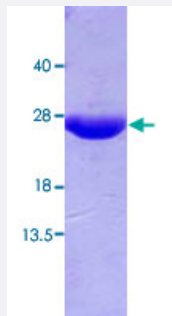


TNFSF9 (Human) Recombinant Protein

Catalog # P3533 Size 100 ug

Applications



Specification

Product Description	Human TNFSF9 (NP_003802, 71 a.a. - 254 a.a.) partial recombinant protein with His tag expressed in <i>Escherichia coli</i> .
Sequence	MRGSHHHHHHGMASMTGGQQMGRDLYDDDDKDRWGSHMREGPELSPDDPAGLLDLRQGMF AQLVAQNVLLIDGPLSWYSDPGLAGVSLTGGLSYKEDTKELVVAKAGVYVFFQLELRRVVAGEG SGSVSLALHLQPLRSAAGAAALALTVDLPPASSEARNSAFGFQGRLLHLSAGQRLGVHLHTEAR ARHAWQLTQGATVLGLFRVTPEIPAGLPSRSE
Host	<i>Escherichia coli</i>
Theoretical MW (kDa)	23.8
Form	Liquid
Preparation Method	<i>Escherichia coli</i> expression system
Purification	Conventional Chromatography
Concentration	1 mg/mL
Purity	> 95% by SDS-PAGE
Quality Control Testing	Loading 3 ug protein in 15% SDS-PAGE
Storage Buffer	In 20 mM Tris-HCl buffer, 100 mM NaCl, pH 8.0 (20% glycerol).

Storage Instruction

Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C.
Aliquot to avoid repeated freezing and thawing.

Applications

- SDS-PAGE

Gene Info — TNFSF9

Entrez GeneID [8744](#)

Protein Accession# [NP_003802](#)

Gene Name TNFSF9

Gene Alias 4-1BB-L, CD137L

Gene Description tumor necrosis factor (ligand) superfamily, member 9

Omim ID [606182](#)

Gene Ontology [Hyperlink](#)

Gene Summary

The protein encoded by this gene is a cytokine that belongs to the tumor necrosis factor (TNF) ligand family. This transmembrane cytokine is a bidirectional signal transducer that acts as a ligand for TNFRSF9/4-1BB, which is a costimulatory receptor molecule in T lymphocytes. This cytokine and its receptor are involved in the antigen presentation process and in the generation of cytotoxic T cells. The receptor TNFRSF9/4-1BB is absent from resting T lymphocytes but rapidly expressed upon antigenic stimulation. The ligand encoded by this gene, TNFSF9/4-1BBL, has been shown to reactivate anergic T lymphocytes in addition to promoting T lymphocyte proliferation. This cytokine has also been shown to be required for the optimal CD8 responses in CD8 T cells. This cytokine is expressed in carcinoma cell lines, and is thought to be involved in T cell-tumor cell interaction.

Other Designations homolog of mouse 4-1BB-L|receptor 4-1BB ligand

Pathway

- [Cytokine-cytokine receptor interaction](#)

Disease

- [Birth Weight](#)
- [Genetic Predisposition to Disease](#)
- [Glioblastoma](#)
- [Glioma](#)
- [Hematologic Diseases](#)
- [Hodgkin Disease](#)
- [Leukemia](#)
- [Lymphoproliferative Disorders](#)
- [Meningeal Neoplasms](#)
- [Meningioma](#)
- [Multiple Myeloma](#)
- [Occupational Diseases](#)
- [Ovarian Neoplasms](#)
- [Waldenstrom Macroglobulinemia](#)
- [Werner syndrome](#)