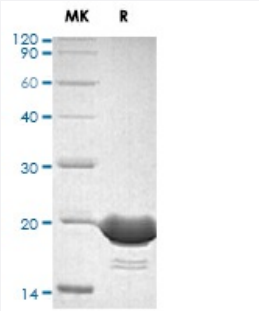
TNFSF9 (Human) Recombinant Protein

Catalog # P7660 Size 1 mg

Applications



Specification

Product Description	Human TNFSF9 (P41273, 71 a.a. - 254 a.a.) partial recombinant protein with His tag at C-terminus expressed in *Escherichia coli*.
Sequence	REGPELSPDDPAGLLDLRQGMFAQLVAQNVLLIDGPLSWYSDPGLAGVSLTGGLSYKEDTKELV VAKAGVYYVFFQLELRRVVAGEGSGSVSLALHLQPLRSAAGAAALALTVDLPPASSEARNSAFG FQGRLLHLSAGQRLGVHLHTEARARHAWQLTQGATVLGLFRVTPEIPAGLPSPRSE
Host	Escherichia coli
Theoretical MW (kDa)	16-20
Form	Lyophilized
Preparation Method	*Escherichia coli* expression system
Purity	> 95% by SDS-PAGE
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Quality Control Testing	SDS-PAGE under reducing condition
Storage Buffer	Lyophilized from sterile distilled Water up to 100 ug/mL
Storage Instruction	Store at 4°C to 8°C for 1 week. For long term storage store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

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Applications

- SDS-PAGE

Gene Info — TNFSF9

Entrez GeneID	8744
Protein Accession#	P41273
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) lig and 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 a nd 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 expresse d 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 cytok ine has also been shown to be required for the optimal CD8 responses in CD8 T cells. This cytoki ne is expressed in carcinoma cell lines, and is thought to be involved in T cell-tumor cell interactio n
Other Designations	homolog of mouse 4-1BB-L|receptor 4-1BB ligand

Pathway

- Cytokine-cytokine receptor interaction

Disease

- Birth Weight

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- 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

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