

Recombinant Active Human TNFSF9 Protein, His-tagged(C-ter)

Cat. No. TNFSF9-322H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Active Human TNFSF9 Protein with His tag (C-ter) was expressed in E. coli.
Species	Human
Source	E.coli
Description	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.[provided by RefSeq, Oct 2008]
Form	Powder
Bio-activity	Determined by its ability to induce IL-8 secretion in human PBMCs. The ED50 for this effect is < 0.7 ng/mL.
AA Sequence	MREGPELSPDDPAGLLDLRQGMFAQLVAQNVLIDGPLSWYSDPGLAGVSLTGGLS

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YKEDTKELVVAKAGVYYVFFQLELRRVVAGEGSGSVSLALHLQPLRSAAGAAALALT
VDLPPASSEARNSAFGFQGRLLHLSAGQRLGVHLHTEARARHAWQLTQGATVLGLF
RVTPEIPAGLPSRSE

Endotoxin Endotoxin level is less than 0.1 EU/μg of the protein, as determined by the LAL test.

Purity > 95% (by SDS-PAGE)

Applications SDS-PAGE

Notes For laboratory research only, not for drug, diagnostic or other use.

Storage Lyophilized protein should be stored at -20°C. After reconstitution, aliquot and store at -20°C or -80°C for up to one month. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening.

Storage Buffer PBS (pH 7.4)

Reconstitution It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less than 100 μg/mL and incubate the stock solution for at least 20 min at room temperature to make sure the protein is dissolved completely.

GENE INFORMATION

Gene Name TNFSF9 tumor necrosis factor (ligand) superfamily, member 9 [Homo sapiens]

Official Symbol TNFSF9

Synonyms TNFSF9; tumor necrosis factor (ligand) superfamily, member 9; tumor necrosis factor ligand superfamily member 9; 4 1BB L; homolog of mouse 4 1BB L; receptor 4 1BB

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ligand; 4-1BBL; 4-1BB ligand; receptor 4-1BB ligand; homolog of mouse 4-1BB-L;
CD137L; 4-1BB-L;

Gene ID 8744

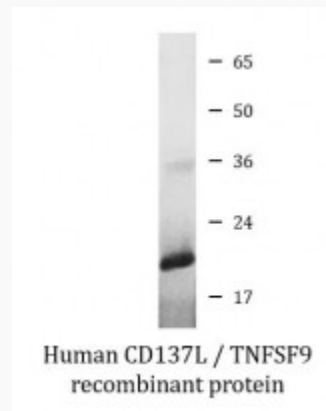
mRNA Refseq NM_003811

Protein Refseq NP_003802

MIM 606182

UniProt ID P41273

SDS-PAGE



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