

Recombinant Human TNFSF9 Protein, FLAG-tagged

Cat. No. TNFSF9-157H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human TNFSF9 Protein with a FLAG tag was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Endotoxin	Less than 1.0 EU/μg by the LAL method
Purity	85%, by SDS-PAGE
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

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Storage Buffer PBS, pH 7.4, 5% trehalose, 5% mannitol

GENE INFORMATION

Gene Name TNFSF9 TNF superfamily member 9 [Homo sapiens (human)]

Official Symbol TNFSF9

Synonyms

TNFSF9 TNF superfamily member 9; CD137L; TNLG5A; 4-1BB-L; tumor necrosis factor ligand superfamily member 9; 4-1BB ligand; 4-1BBL; homolog of mouse 4-1BB-L; receptor 4-1BB ligand; tumor necrosis factor (ligand) superfamily, member 9; tumor necrosis factor ligand 5A; tumor necrosis factor superfamily member 9

Gene ID 8744

mRNA Refseq NM_003811

Protein Refseq NP_003802

MIM 606182

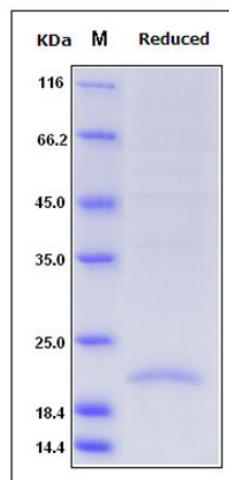
UniProt ID P41273

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Human TNFSF9-Flag



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