

## Recombinant Human TNFSF9 Protein, FLAG-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human TNFSF9 Protein with a FLAG tag was expressed in HEK293 cells.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	<p>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.</p>
<b>Endotoxin</b>	Less than 1.0 EU/μg by the LAL method
<b>Purity</b>	85%, by SDS-PAGE
<b>Storage</b>	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

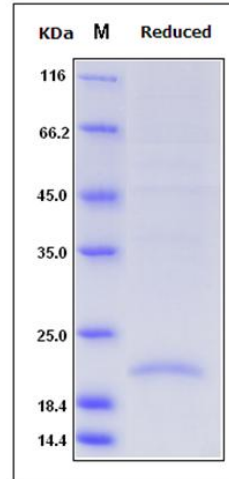
**UniProt ID** P41273

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Human TNFSF9-Flag



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