

# Recombinant Full Length Human TNFSF9 Protein, C-Flag-tagged

**Cat. No.** TNFSF9-1822HFL    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Full Length Human TNFSF9 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
<b>Species</b>	Human
<b>Source</b>	Mammalian Cells
<b>Description</b>	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.
<b>Form</b>	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
<b>Molecular Mass</b>	26.4 kDa
<b>AA Sequence</b>	MEYASDASLDPEAPWPPAPRARACRVLPWALVAGLLLLLLLLAAACAVFLACPWAVS

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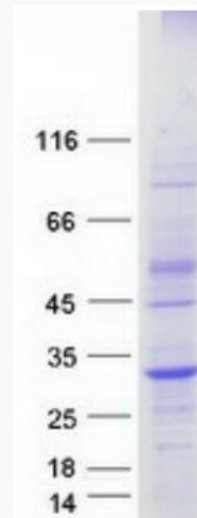
GARASPGSAASPRL REGPELSPDDPAGLLDLRQGMFAQLVAQNVLLIDGPLSWYS  
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 QPLRSAAGAAALALTVDLPPASSEARNNSAFGFQGRLLHLSAGQ RLGVHLHTEARAR  
 HAWQLTQGATVLGLFRVTPEIPAGLPSRSE TRTRPLEQKLISEEDLAANDILDYKD  
 DDDKV

<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining.
<b>Stability</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>Storage</b>	Store at -80 centigrade.
<b>Concentration</b>	>50 ug/mL as determined by microplate BCA method.
<b>Preparation</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Protein Families</b>	Druggable Genome, Transmembrane
<b>Protein Pathways</b>	Cytokine-cytokine receptor interaction
<b>Full Length</b>	Full L.

## GENE INFORMATION

<b>Gene Name</b>	TNFSF9 TNF superfamily member 9 [ Homo sapiens (human) ]
<b>Official Symbol</b>	TNFSF9
<b>Synonyms</b>	CD137L; TNLG5A; 4-1BB-L

Gene ID	8744
mRNA Refseq	NM_003811.4
Protein Refseq	NP_003802.1
MIM	606182
UniProt ID	P41273



Coomassie blue staining of purified TNFSF9 protein.

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