

# Active Recombinant Human TNFSF9 Protein, Fc-tagged

Cat. No. TNFSF9-719H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Human TNFSF9 Protein extracellular domain 51-254aa (signal peptide removed), fused with a N-terminal Fc tag, was expressed in HEK293.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	51-254 a.a.
<b>Description</b>	4-1BBL is the high affinity ligand of 4-1BB, also known as CD137L or TNFSF9. It is shown to be a type II surface glycoprotein belonging to the TNF superfamily. Expression of 4-1BBL is restricted to APCs, such as dendritic cells, macrophages, and activated B cells. Members of the TNFTNF receptor superfamily have been shown to play critical roles in regulating cellular activation, differentiation and apoptosis. Several studies have reported that 4-1BBL/4-1BB interaction provided a co-stimulatory signal to T cells, and increased T cell proliferation and cytokines production. In addition, 4-1BBL is involved in cancers, infectious diseases and autoimmune diseases.
<b>Form</b>	Lyophilized from sterile PBS, pH 7.4.
<b>Bio-activity</b>	Measured by its binding ability in a functional ELISA.
<b>Molecular Mass</b>	The recombinant mature human CD137L protein consists of 436 amino acids and has a calculated molecular mass of 47.4 KD.

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<b>Endotoxin</b>	<1.0EU/ug, LAL method
<b>Purity</b>	>95% (SDS-PAGE)
<b>Stability</b>	Samples are stable for up to twelve months from date of receipt at -70°C.
<b>Storage</b>	Store it under sterile conditions at -20°C~-70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
<b>Reconstitution</b>	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

## GENE INFORMATION

<b>Gene Name</b>	TNFSF9 tumor necrosis factor (ligand) superfamily, member 9 [ Homo sapiens ]
<b>Official Symbol</b>	TNFSF9
<b>Synonyms</b>	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 ligand; 4-1BBL; 4-1BB ligand; receptor 4-1BB ligand; homolog of mouse 4-1BB-L; CD137L; 4-1BB-L;
<b>Gene ID</b>	8744
<b>mRNA Refseq</b>	NM_003811
<b>Protein Refseq</b>	NP_003802
<b>MIM</b>	606182

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<b>UniProt ID</b>	P41273
<b>Chromosome Location</b>	19p13.3
<b>Pathway</b>	Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem;
<b>Function</b>	cytokine activity; receptor binding; tumor necrosis factor receptor binding;

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