

## Active Recombinant Human TNFRSF9 Protein

**Cat. No.** TNFRSF9-110H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human 4-1BB Soluble Receptor also called Tumor necrosis factor receptor superfamily member 9 produced in <i>E. Coli</i> is a single, non-glycosylated polypeptide chain containing 167 amino acids, having a molecular mass of 17718 Dalton and containing the cysteine rich TNFR-like extracellular domain of 4-1BB Receptor. The expression of this receptor is induced by lymphocyte activation. The 4-1BB Receptor is purified by proprietary chromatographic techniques.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	The protein encoded by this gene is a member of the TNF-receptor superfamily. This receptor contributes to the clonal expansion, survival, and development of T cells. It can also induce proliferation in peripheral monocytes, enhance T cell apoptosis induced by TCR/CD3 triggered activation, and regulate CD28 co-stimulation to promote Th1 cell responses. TRAF adaptor proteins have been shown to bind to this receptor and transduce the signals leading to activation of NF-kappaB.
<b>Physical Appearance</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Purity</b>	Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
<b>Formulation</b>	Lyophilized from a concentrated (1mg/ml) solution in water containing no additives.

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<b>Solubility</b>	It is recommended to reconstitute the lyophilized 4-1BB Receptor in sterile 18MΩ-cm H <sub>2</sub> O not less than 100g/ml, which can then be further diluted to other aqueous solutions.
<b>Amino acid sequence</b>	The sequence of the first five N-terminal amino acids was determined and was found to be Met-Glu-Arg-Thr-Arg.
<b>Biological Activity</b>	The activity was determined by the inhibition of 4-1BB ligand mediated stimulation of IL-8 production by human PBMC. Results: 90% inhibition using 1g for both 4-1BB ligand and 4-1BB receptor.
<b>Storage</b>	Lyophilized 4-1BB Receptor although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution 4-1BBR should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

## GENE INFORMATION

<b>Gene Name</b>	TNFRSF9 tumor necrosis factor receptor superfamily, member 9 [ Homo sapiens ]
<b>Synonyms</b>	Tumor necrosis factor receptor superfamily member 9; 4-1BB ligand receptor T-cell; antigen 4-1BB homolog; T-cell antigen ILA; CD137 antigen; MGC2172; 4-1BBR; TNFRSF9; CD137; CDw137; ILA; OTTHUMP00000001360; OTTHUMP00000044294; 4-1BB ligand receptor; homolog of mouse 4-1BB; receptor protein 4-1BB; induced by lymphocyte activation (ILA); interleukin-activated receptor, homolog of mouse Ly63; T-cell antigen 4-1BB homolog; 4-1BB
<b>Gene ID</b>	3604

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<b>mRNA Refseq</b>	NM_001561
<b>Protein Refseq</b>	NP_001552
<b>MIM</b>	602250
<b>UniProt ID</b>	Q07011
<b>Chromosome Location</b>	1p36
<b>Pathway</b>	Cytokine-cytokine receptor interaction
<b>Function</b>	protein binding; receptor activity

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