

Active Recombinant Human TNFRSF9 Protein

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	E.coli
Description	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.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Formulation	Lyophilized from a concentrated (1mg/ml) solution in water containing no additives.

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Solubility	It is recommended to reconstitute the lyophilized 4-1BB Receptor in sterile 18MΩ-cm H ₂ O not less than 100g/ml, which can then be further diluted to other aqueous solutions.
Amino acid sequence	The sequence of the first five N-terminal amino acids was determined and was found to be Met-Glu-Arg-Thr-Arg.
Biological Activity	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.
Storage	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

Gene Name	TNFRSF9 tumor necrosis factor receptor superfamily, member 9 [Homo sapiens]
Synonyms	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
Gene ID	3604

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

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