

Active Recombinant Human TNFRSF9 Protein

Cat. No. TNFRSF9-517H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TNFRSF9 protein was expressed in Escherichia coli.
Species	Human
Source	E.coli
ProteinLength	166
Description	4-1BB receptor, also named TNFRSF9 is a member of the TNF superfamily of receptors. It is mainly expressed on the surface of a variety of T cells, but also found in B cells, monocytes, and various transformed cell lines. 4-1BB receptor binds to 4-1BBL, and they co-stimulate activity for activated T cells. Signaling by 4-1BB Receptor has been implicated in the antigen-presentation process and generation of cytotoxic T cells. Crosslinking of 4-1BB Receptor enhances T cell proliferation, IL-2 secretion survival and cytolytic activity. Further, it can enhance immune activity to eliminate tumors in mice.
Form	Lyophilized from a 0.2µm filtered concentrated solution in 10 mM PB, pH 8.0, 150 mM NaCl.
Bio-activity	Fully biologically active when compared to standard. The biological activity is determined by its inhibitory effect of IL-8 production using human peripheral blood mononuclear cells. About 90 % of inhibition was seen using a concentration of 1 µg for both 4-1BB Ligand and 4-1BB Receptor.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	Approximately 17.7 kDa, a single non-glycosylated polypeptide chain containing 166 amino acids.
AA Sequence	ERTRSLQDPCSNCPAGTFCDNNRNQICSPCPPNSFSSAGGQRTCDICRQCKGVFR TRKECSSTSNAECDCTPGFHCLGAGCSMCEQDCKQGQELTKKGCKDCCFGTFND QKRGICRPWTNCSLDGKSVLVNGTKERDVVCGPSPADLSPGASSVTPPAPAREPG HS
Endotoxin	Less than 1 EU/μg of rHu4-1BB Receptor as determined by LAL method.
Purity	>97% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤-20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	TNFRSF9
Official Symbol	TNFRSF9
Synonyms	TNFRSF9; tumor necrosis factor receptor superfamily, member 9; ILA; tumor necrosis factor receptor superfamily member 9; 4 1BB; CD137; CD137 antigen; T cell antigen

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ILA; T-cell antigen ILA; 4-1BB ligand receptor; homolog of mouse 4-1BB; receptor protein 4-1BB; T-cell antigen 4-1BB homolog; induced by lymphocyte activation (ILA); interleukin-activated receptor, homolog of mouse Ly63; 4-1BB; CDw137; MGC2172; FLJ43501;

Gene ID [3604](#)

mRNA Refseq [NM_001561](#)

Protein Refseq [NP_001552](#)

MIM [602250](#)

UniProt ID [Q07011](#)

**SDS-PAGE of
TNFRSF9-517H**

