

## Human 4-1BB Receptor

Synonyms: Tumor necrosis factor receptor superfamily member 9, 4-1BB ligand receptor T-cell, antigen 4-1BB homolog, T-cell antigen ILA, CD137 antigen, CDw137, ILA, 4-1BB, MGC2172, 4-1BBR, TNFRSF9.

**PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING**

Size	Order #	Lot #	Expiry Date
5 µg	1167.950.005		
20 µg	1167.950.020		
1 mg	1167.950.199		

Please enquire for bulk quantities and other vial sizes

### Description

Recombinant human soluble 4-1BB receptor is a 17.7 kDa protein consisting of 167 amino acid residues, which contains the cysteine rich TNFR-like extracellular domain of 4-1BB receptor. 4-1BB receptor, a member of the TNFR superfamily of receptors, is mainly expressed on the surface of T cells, but also in B cells, monocytes, and various transformed cell lines. 4-1BB receptor has been implicated in the antigen-presentation process and generation of cytotoxic T cells. The human 4-1BB receptor gene codes for a 255 amino acid type I transmembrane protein containing a 17 amino acid N-terminal signal sequence, a 169 amino acid extracellular domain, a 27 amino acid transmembrane domain and a 42 amino acid cytoplasmic domain.

- **Source** *E. Coli*
- **Purity** ≥ 98 % (SDS-PAGE, RP-HPLC)
- **Endotoxin level** ≤ 0.1ng/µg (≤ 1EU/µg)
- **Buffer** Lyophilized from a concentrated (1mg/ml) solution in water containing no additives\*
- **Physical state** Sterile filtered, lyophilized

### 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 1µg for both 4-1BB ligand and 4-1BB receptor.

### Reconstitution

We recommend a quick spin followed by reconstitution in sterile water to a concentration of at least 100 µg/ml, which can then be further diluted to other aqueous solutions. Do not vortex.

### Stability

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 avoid repeated freeze-thaw cycles.**

### 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.

**Usage:** For research use only. Not for use in diagnostic or therapeutic procedures. Not for human use.

\*The Buffer may vary depending on the Lot #. Please contact our technical support if you have specific requirements.

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