TNFRSF9
Recombinant Human 4-1BB Receptor

Catalog No.	CRB201A	**Quantity:**	5 µg
	CRB201B		20 µg
	CRB201C		1.0 mg

Alternate Names: 4-1BB, 4-1BB ligand receptor, 4-1BBR, CD137, ILA, Ly63, Tumor Necrosis Factor Receptor Superfamily Member 9

Description: Human 4-1BB Receptor, also named TNFRSF9, is a single non-glycosylated polypeptide chain containing 166 amino acids.

4-1BB Receptor 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 to provide a co-stimulatory signal for T lymphocytes. Signaling by 4-1BB Receptor has been implicated in the antigen-presentation process and generation of cytotoxic T cells.

Gene ID: 3604

Source: *E. coli*

Molecular Weight: 17.7 kDa

Formulation: 0.2 µm sterile filtered and lyophilized in 10 mM PB, pH 8.0, + 150 mM NaCl.

Purity: >95.0% as determined by analysis by SDS-PAGE and HPLC.

Endotoxin Level: < 1 EU/µg as determined by LAL method.

Biological Activity: Fully biologically active when compared to standard. The biological activity is measured by its binding ability in a functional ELISA. When Recombinant Human 4-1BB Receptor is immobilized at 10 ng/ml, the concentration of Recombinant Human 4-1BB Ligand that produces 50% optimal binding response is found to be approximately 0.5 - 2.5 ng/ml.

Amino Acid Sequence: ERTRSLQDPC SNCPAGTFCD NNRNQICSPC PPNSFSSAGG QRTCDICRQC KGVFRTRKEC SSTSNAECDC TPGFHCLGAG CSMCEQDCKQ GQELTKKGCK DCCFGTFNDQ KRGICRPWTN CSLDGKSVLV NGTKERDVVC GPSPADLSPG ASSVTPPAPA REPGHS

Reconstitution: **Centrifuge vial prior to opening**. First add sterile distilled water to the vial to fully solubilize the protein to a concentration not less than 100 µg/ml. After complete solubilization of the protein, it can be further diluted to other aqueous solutions.

Storage & Stability: Store lyophilized protein at -20°C to -80°C. Reconstituted protein is stable for 1 week at 2-4°C. For long term storage, aliquot and store at -20°C to -80°C with a carrier protein (0.1% HSA or BSA) as a stabilizer. **This depends upon the particular application employed. Avoid repeated freeze-thaw cycles.**

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