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Recombinant Human 4-1BBL

Description: 4-1BBL, a member of the TNF superfamily, is expressed in B cells, dendritic cells, activated T cells and macrophages. 4-1BBL binds to its receptor 4-1BB, and provides a co-stimulatory signal for T cell activation and expansion. The human 4-1BBL gene codes for a 254 amino acid type II transmembrane containing a 28 amino acid cytoplasmic domain, a 21 amino acid transmembrane domain, and a 205 amino acid extracellular domain. The soluble form of 4-1BBL contains the TNF-like portion of the extracellular domain of 4-1BBL. Recombinant human 4-1BBL is a soluble 19.5 kDa protein consisting of 185 amino acid residues.

Source:	E. coli
Molecular Weight:	19.5 kDa
Purity:	> 98% by SDS-PAGE and HPLC analyses
Endotoxin level:	< 0.1 ng per µg of 4-1BBL
Stabilizer:	none
Formulation:	lyophilized

Biological Activity: Determined by the dose-dependent stimulation of IL-8 production by human PBMC. The expected ED₅₀ for this effect is 5-10 ng/ml. NOTE: Results may vary with different PBMC donors.

Reconstitution: Reconstitute in water to a concentration of 0.1-1.0 mg/ml. This solution can be diluted into other aqueous buffers and stored at 4°C for 1 week or -20°C for future use.

Stability: The lyophilized protein is stable for a least 2 years from date of receipt at -20°C. Reconstituted human 4-1BBL is stable for at least 3 months when stored in working aliquots with carrier protein at -20°C. **Avoid repeated freeze-thaw cycles.**

Please Note: Results may vary with PBMC donors.

Usage: Human 4-1BBL is offered for research use. Not for drug use. **Not for human use.**

Catalogue number: 100-001	Size: 20 µg
	Range: 0.1-10 ng/ml

****please note: always centrifuge product before opening Vial.****