

## 32-20016: Recombinant Human 4-1BB Ligand(Discontinued)

**Alternative Name :** TNFSF9, CD137L

### Description

**Source: E.coli**

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 protein 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.

### Product Info

**Amount :** 5 µg / 20 µg

**Purification :** Purity: >= 98% by SDS-PAGE gel and HPLC analyses.

**Amino Acid :** MREGPELSPD DPAGLLDLRQ GMFAQLVAQN VLLIDGPLSW YSDPGLAGVS LTGGLSYKED TKELVVAKAG  
VYYVFFQLEL RRVVAGEGSG SVSLALHLQP LRSAAGAAAL ALTVDLPPAS SEARNSAFGF QGRLLHLSAG  
QRLGVHLHTE ARARHAWQLT QGATVLGLFR VTPEIPAGLP SPRSE

### Application Note

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