

# **Recombinant Human 4-1BBL**

**CATALOG #**: 4369-20 20 μg

4369-100 100 μg 4369-1000 1 mg

LOT #: \_\_\_\_\_

SOURCE: E. coli

**PURITY:** >98% by SDS-PAGE analyses

Endotoxin level is <0.1 ng per µg.

MOL. WEIGHT: 19.5 kDa

**FORM:** Lyophilized from 5 mM Tris, pH 8.0 + 75 mM NaCl.

## **RECONSTITUTION:**

We recommend a quick spin followed by reconstitution in water to a concentration of 0.1-1.0 mg/ml. This solution can then be diluted into other aqueous buffers and stored at  $4^{\circ}$ C for 1 week or  $-20^{\circ}$ C for future use.

## STORAGE CONDITIONS:

The lyophilized protein is best-stored desiccated below 0°C. Reconstituted human 4-1BBL should be stored in working aliquots at -20°C.

#### **DESCRIPTION:**

Human 4-1BB Ligand (4-1BBL) is a member of the emerging family of Ligands with structural homology to tumor necrosis factor. Recombinant human 4-1BBL is a 19.5 kDa protein containing 185 amino acid residues, comprising the TNF-like extra-cellular domain of 4-1BBL.

### **BIOLOGICAL ACTIVITY:**

Determined by the dose-dependent stimulation of IL-8 production by human PBMC. The ED $_{50}$  for the effect is less than 10 ng/ml. Please note: Results may vary with PBMC donors.

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- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

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