



Recombinant Human 4-1BBL

20150227BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	100-001S
Size:	5 µg
Lot. No.:	According to product label

Scientific Background

Gene-ID (NCBI):	8744
Synonyms:	TNFSF9; CD137L; 4-1BB-L

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.

Sequence

MREGPELSPDDPAGLLDLRQGMFAQLVAQNVLLIDGPLSWYSDPGLAGVSLT
GGLSYKEDTKELVVAKAGVYYVFFQLELRRVVAGEGSGSVSLALHLQPLRSA
AGAAALALTVDLPPASSEARNSAFGFQGRLLHLSAGQRLGVHLHTEARARHA
WQLTQGATVLGLFRVTPPEIPAGLPSRSE

Database References

Protein RefSeq:	NP_003802.1
Uniprot ID:	P41273
mRNA RefSeq:	NM_003811.3

Product Specifications

Expressed in	E. coli
Purity	> 97% by SDS-PAGE & HPLC analyses
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	lyophilized
Length (aa):	185
MW:	19.5 kDa

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.



AVOID REPEATED FREEZE AND THAW CYCLES!