



Recombinant Human 4-1BB receptor, soluble

20150227BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

| | |
|------------------|----------------------------|
| Cat.-no.: | S01-039 |
| Size: | 20 µg |
| Lot. No.: | According to product label |

Sequence

MERTRSLQDP CSNCPAGTFC DNNRNQICSP CPPNSFSSAG
 GQRTCDICRQ CKGVFRTRKE CSSTSNAECD CTPGFHCLGA
 GCSTMCEQDCK QGQELTKKGC KNCCFGTFND QKRGICRPWT
 NCSLDGKSVL VNGTKERDVV CGPSPADLSP GASSVTTPAP AREPGHS

Database References

| | |
|------------------------|-------------|
| Protein RefSeq: | NP_003802.1 |
| Uniprot ID: | Q07011 |
| mRNA RefSeq: | NM_001561 |

Scientific Background

| | |
|------------------------|------------------------------------|
| Gene-ID (NCBI): | 3604 |
| Synonyms: | TNFRSF9; ILA; 4-1BB; CD137; CDw137 |

4-1BB Receptor, a member of the TNF superfamily of receptors, 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. The human 4-1BB Receptor gene codes for a 255 amino acid type I transmembrane protein containing a 17 amino acid N-terminal signal sequence, a 169 amino acid extracellular domain, a 27 amino acid transmembrane domain and a 42 amino acid cytoplasmic domain. Recombinant human soluble 4-1BB Receptor is a 167 amino acid polypeptide (17.7 kDa), which contains the cysteine rich TNFR-like extracellular domain of 4-1BB Receptor.

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): | 167 |
| MW: | 17.7 kDa |

Biological Activity: Determined by its inhibitory effect of the 4-1BBL mediated stimulation of IL-8 production by human PBMC. About 90% of inhibition was seen using a concentration of 1µg for both 4-1BBL and 4-1BBR.



AVOID REPEATED FREEZE AND THAW CYCLES!