

Recombinant Human 4-1BB Receptor/TNFRSF9 (Human 4-1BB Receptor/TNFRSF9)

Product Information

Product Name	Cat#	Size
	90610ES08	5µg
Recombinant Human 4-1BB Receptor/TNFRSF9 (Human 4-1BB Receptor/TNFRSF9)	90610ES60	100µg
	90610ES76	500µg

Product Description

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 Properties

Synonyms	TNFRSF9, CD137 Antigen, T-cell Antigen ILA
Accession	Q07011
GeneID	3604
Source	E.coli-derived Human 4-1BB Receptor/TNFSF9 protein,Glu19-Ser184.
Molecular Weight	Approximately 17.7 kDa
AA Sequence	ERTRSLQDPC SNCPAGTFCD NNRNQICSPC PPNSFSSAGG QRTCDICRQC KGVFRTRKEC SSTSNAECDC TPGFHCLGAG CSMCEQDCKQ GQELTKKGCK DCCFGTFNDQ KRGICRPWTN CSLDGKSVLV NGTKERDVVC GPSPADLSPG ASSVTPPAPA REPGHS
Tag	None
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	> 97 % by SDS-PAGE and HPLC analyses.
Biological Activity	Fully biologically active when compared to standard. The biological activity is determined by its inhibitory effect of IL-8 production using human peripheral blood mononuclear cells. About 90% of inhibition was seen using a concentration of 1 µg for both 4-1BB Ligand and 4-1BB Receptor.
Endotoxin	< 1.0 EU per 1µg of the protein by the LAL method.
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in 10 mM PB, pH 8.0, 150 mM NaCl. We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom.
Reconstitution	Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20°C. Further dilutions should be made in appropriate buffered solutions.

Shipping and Storage

The products are shipped with ice pack and can be stored at -20°C to -80°C for 1 year.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

Cautions

1. Avoid repeated freeze-thaw cycles.
2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. For research use only.