DATASHEET

Recombinant Human 4-1BB Receptor

CAT. NO. ARP6727

KEY FEATURES

Target	4-1BB Receptor	Source/Expression System	E.coli
Reactivity	Human	Aapplication	SDS-PAGE
Abbreviation	rHu4-1BB Receptor	Synonyms	TNFRSF9, CD137, T-cell antigen ILA, CDw137

BACKGROUND

4-1BB receptor, also named TNFRSF9 is a member of the TNF superfamily of receptors. It 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, and they co-stimulate activity for activated T cells. Signaling by 4-1BB Receptor has been implicated in the antigen-presentation process and generation of cytotoxic T cells. Crosslinking of 4-1BB Receptor enhances T cell proliferation, IL-2 secretion survival and cytolytic activity. Further, it can enhance immune activity to eliminate tumors in mice. 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 166 amino acid polypeptide, which contains the cysteine-rich TNFR-like extracellular domain of 4-1BB Receptor.

PRODUCT OVERVIEW

Molecular Weight	Approximately 17.7 kDa, a single non-glycosylated polypeptide chain containing 166 amino acids.
Accession	Q07011 Glu19-Ser184
A.A. Sequence	ERTRSLQDPCSNCPAGTFCDNNRNQICSPCPPNSFSSAGGQRTCDICRQCKGVFRTRKECSSTSNAECDCTPGFHC LGAGCSMCEQDCKQGQELTKKGCKDCCFGTFNDQKRGICRPWTNCSLDGKSVLVNGTKERDVVCGPSPADLSPG ASSVTPPAPAREPGHS
Purity	＞97% by SDS-PAGE or HPLC.
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.
Formulation	Lyophilized from a 0.2 μm filtered concentrated solution in 20 mM PB, with 150 mM NaCl, pH 5.8.
Appearance	Sterile filtered White lyophilized (freeze-dried) powder.
Endotoxin	< 0.1 EU/μg of rHu4-1BB Receptor protein as determined by LAL method.
Reconstitution	Before use this product, please read the direction below carefully. This vial must be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a 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.

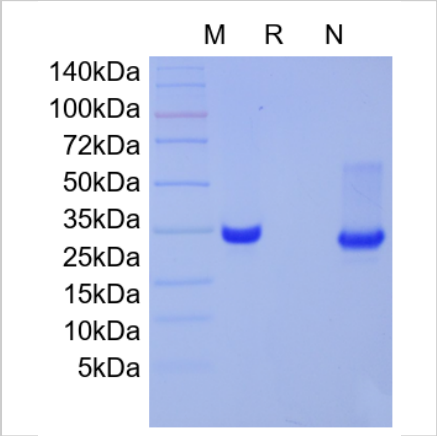
*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

DATASHEET

Recombinant Human 4-1BB Receptor

CAT. NO. ARP6727

DATA



SDS-PAGE

STORAGE

For long term storage, the product should be stored ≤ -20°C. Please avoid repeated freeze-thaw cycles after reconstitution. 36 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.