DATASHEET

Recombinant Human 4-1BB Ligand/TNFSF9

CAT. NO. ARP6701

KEY FEATURES

Target	4-1BB Ligand/TNFSF9	Source/Expression System	E.coli
Reactivity	Human	Aapplication	SDS-PAGE
Abbreviation	rHu4-1BB Ligand/TNFSF9	Synonyms	CD137L

BACKGROUND

4-1BBL is a member of the tumor necrosis factor (TNF) receptor family. This receptor contributes to the clonal expansion, survival, and development of T cells. In addition, 4-1BBL expression is found on dendritic cells, follicular dendritic cells, natural killer cells, granulocytes and cells of blood vessel walls at sites of inflammation. 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 (ECD) . The human 41BBL ECD shares 32% and 35% a.a. identity with murine and rat ECD. Recombinant Human 4-1BB Ligand/TNFSF9 is a 19.4kDa non-glycosylated protein containing 184 amino acid residues.

PRODUCT OVERVIEW

Molecular Weight	Approximately 19.4 kDa, a single non-glycosylated polypeptide chain containing 184 amino acids.
Accession	P41273 Arg71-Glu254
A.A. Sequence	REGPELSPDDPAGLLDLRQGMFAQLVAQNVLLIDGPLSWYSDPGLAGVSLTGGLSYKEDTKELVVAKAGVYYVFFQL ELRRVVAGEGSGSVSLALHLQPLRSAAGAAALALTVDLPPASSEARNSAFGFQGRLLHLSAGQRLGVHLHTEARARH AWQLTQGATVLGLFRVTPEIPAGLPSPRSE
Purity	＞96% by SDS-PAGE or HPLC.
Biological Activity	Fully biologically active when compared to standard. The ED50 as determined by stimulation of IL-8 production using human PBMC is less than 10 ng/ml, corresponding to a specific activity of ≥1.0×10^5 IU/mg.
Formulation	Lyophilized from a 0.2 μm filtered concentrated solution in PBS, pH 7.4.
Appearance	Sterile filtered White lyophilized (freeze-dried) powder.
Endotoxin	< 0.1 EU/μg of rHu4-1BBL 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.

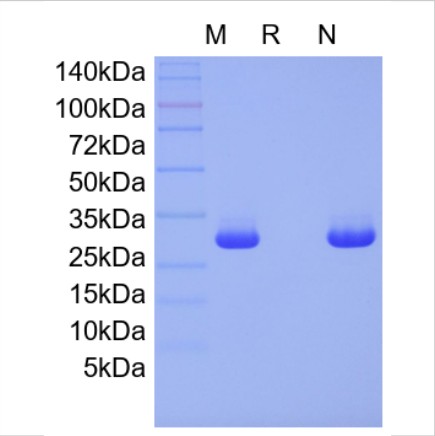
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STORAGE

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.