Active Recombinant Human TNFSF9

Cat. No. 4-1BB-L-516H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human 4-1BB-L produced in E. coli is approximately 19.4 kDa, a single non-glycosylated polypeptide chain containing 184 amino acids.
Species	Human
Source	E.coli
Description	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. CD137 has been shown to interact with TRAF2. 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 4-1BBL ECD shares 32 % and 35 % a.a. identity with murine and rat ECD.
Form	Lyophilized from a 0.2 μm filtered concentrated solution in PBS, pH 7.4.
Bio-activity	Fully biologically active when compared to standard. The ED 50 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.
Molecular Mass	19.4 kDa

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AA Sequence	REGPELSPDD PAGLLDLRQG MFAQLVAQNV LLIDGPLSWY SDPGLAGVSL TGGLSYKEDT KELVVAKAGV YYVFFQLELR RVVAGEGSGS VSLALHLQPL RSAAGAAALA LTVDLPPASS EARNSAFGFQ GRLLHLSAGQ RLGVHLHTEA RARHAWQLTQ GATVLGLFRV TPEIPAGLPS PRSE
Endotoxin	Less than 1 EU/μg of rHu4-1BBL as determined by LAL method.
Purity	>95% by SDS-PAGE and HPLC analyses.
Usage	This material is for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE.
Storage	This lyophilized preparation is stable at 2-8 centigrade, but should be kept at -20 centigrade for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 centigrade. For maximal stability, apport
Reconstitution	We recommend that this vial be briefy centrifuged prior to opening to bring the contents to the bottom. 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 apportion

GENE INFORMATION

Gene Name	TNFSF9 tumor necrosis factor (ligand) superfamily, member 9 [Homo sapiens (human)]
Official Symbol	4-1BB-L
Synonyms	TNFSF9;CD137L; 4-1BB-L;tumor necrosis factor ligand superfamily member 9;4-1BBL;4-1BB ligand;receptor 4-1BB ligand;homolog of mouse 4-1BB-L

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Gene ID	8744
mRNA Refseq	NM_003811.3
Protein Refseq	NP_003802.1
MIM	606182
UniProt ID	P41273
Chromosome Location	19p13.3
Pathway	Cytokine-cytokine receptor interaction
Function	cytokine activity;receptor binding;tumor necrosis factor receptor binding

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