

## TNFSF9

### Recombinant Human 4-1BB Ligand

<b>Catalog No.</b>	CRB200A CRB200B CRB200C	<b>Quantity:</b>	5 µg 20 µg 1 mg
<b>Alternate Names:</b>	4-1BB-L, CD137L, tumor necrosis factor ligand superfamily member 9, 4-1BBL, 4-1BB ligand, receptor 4-1BB ligand, homolog of mouse 4-1BB-L		
<b>Description:</b>	<p>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.</p> <p>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 mouse and rat ECD.</p>		
<b>Gene ID:</b>	8744		
<b>Source:</b>	<i>E. coli</i>		
<b>Molecular Weight:</b>	19.4 kDa		
<b>Formulation:</b>	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.		
<b>Purity:</b>	Greater than 95% by SDS-PAGE and HPLC analyses.		
<b>Endotoxin Level:</b>	Less than 1 EU/µg of rHu4-1BBL as determined by LAL method.		
<b>Biological Activity:</b>	Fully biologically active when compared to standard. The ED <sub>50</sub> determined by stimulation of IL-8 production using human PBMC is less than 10 ng/ml.		
<b>Specific Activity:</b>	> 1.0 × 10 <sup>5</sup> IU/mg.		
<b>Amino Acid Sequence:</b>	REGPELSPDD PAGLLDLRQG MFAQLVAQNV LLIDGPLSWY SDPGLAGVSL TGGLSYKEDT KELVVAKAGV YYVFFQLELR RVVAGEGSGS VSLALHLQPL RSAAGAAALA LTVDLPPASS EARNSAFGFQ GRLLHLSAGQ RLGVLHTEA RARHAWQLTQ GATVLGLFRV TPEIPAGLPS PRSE		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening.</b> Add sterile distilled water or aqueous buffer to a concentration of 0.1-1.0 mg/ml. Further dilutions should be made in appropriate buffered solutions.		
<b>Storage &amp; Stability:</b>	This lyophilized preparation is stable at 2-4°C, but should be kept desiccated at -20°C for long term storage. Upon reconstitution, the preparation is stable for up to one week at 2-4°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -80°C. <b>Avoid repeated freeze/thaw cycles.</b>		

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