

4-1BB Ligand Human E. coli

Product Data Sheet

Type: Recombinant	Cat. No.:	
Source: E. coli	RBG10068005	(5 µg)
Species: Human	RBG10068020	(20 µg)
Other names: TNFSF9, CD137L	RBG10068100	(100 µg)

Description

4-1BBL, a member of the TNF superfamily, is expressed in B cells, dendritic cells, activated T cells and macrophages. 4-1BBL binds to its receptor 4-1BB and provides a co-stimulatory signal for T cell activation and expansion. 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. The soluble form of 4-1BBL contains the TNF-like portion of the extracellular domain of 4-1BBL. Recombinant human 4-1BBL is a soluble 19.5 kDa protein consisting of 185 amino acid residues.

Research topic

Apoptosis, Cardiovascular disease, Immune Response, Infection and Inflammation, Transplantation

Amino Acid Sequence

MREGPELSPD DPAGLLDLRQ GMFAQLVAQN VLLIDGPLSW YSDPGLAGVS LTGGLSYKED TKELVVAKAG VYYVFFQLEL
RRVVAGEGSG SVSLALHLQP LRSAAGAAAL ALTVDLPPAS SEARNSAFGF QGRLHLHLSAG QRLGVHLHTE ARARHAWQLT
QGATVLGLFR VTPEIPAGLP SPRSE

Source

E. coli

Purity

98%

Biological Activity

Determined by the dose-dependent stimulation of IL-8 production by human PBMC. The ED50 for this effect is 5-10 ng/ml.

Note: Results may vary with PBMC donors.

Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C

Storage, Stability/Shelf Life

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