

32-1779: 4 1BBL Recombinant Protein

Alternative Name : CD137L,CD137-L,4-1BBL,4-1BB Ligand,TNFSF9,Tumor Necrosis Factor (ligand) Superfamily Member 9.

Description

Source : Escherichia Coli. 4 1BBL Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 184 amino acids and having a molecular mass of 19.5kDa. The 4 1BBL is purified by proprietary chromatographic techniques. 4-1BBL is a transmembrane cytokine that is part of the tumor necrosis factor (TNF) ligand family. 4-1BBL is a bidirectional signal transducer that performs as a ligand for TNFRSF9, which is a costimulatory receptor molecule in T lymphocytes. TNFSF9 and its TNFRSF9 take part in the antigen presentation development and in the generation of cytotoxic T cells. 4-1BBL is absent from resting T lymphocytes but rapidly expressed upon antigenic stimulation. TNFSF9 reactivates anergic T lymphocytes as well as promoting T lymphocyte proliferation. 4-1BB Ligand is needed for the optimal CD8 responses in CD8 T cells. 4-1BBL is expressed in carcinoma cell lines, and is thought to be involved in T cell-tumor cell interaction. 4-1BBL is expressed by activated B cells, macrophages, dendritic cells, activated T cells, neurons and astrocytes. The interaction of 4-1BB with TNFRSF9 strongly regulates immunity and has been proposed to preferentially control T cell responses based on studies in various murin.

Product Info

Amount :	20 µg
Purification :	Greater than 95.0% as determined by SDS-PAGE.
Content :	Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4.
Storage condition :	Lyophilized 4 1BBL although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution 4 1BBL should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.
Amino Acid :	REGPELSPDD PAGLLDLRQG MFAQLVAQNV LLIDGPLSWY SDPGLAGVSL TGGLSYKEDT KELVVAKAGV YYVFFQLELR RVVAGEGSGS VSLALHLQPL RSAAGAAALA LTVDLPPASS EARNSAFGFQ GRLLHLSAGQ RLGVHLHTEA RARHAWQLTQ GATVLGLFRV TPEIPAGLPS PRSE

Application Note

It is recommended to reconstitute the lyophilized 4 1BBL in sterile 18M-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions. Fully biologically active when compared to standard. Determined by the dose-dependent stimulation of IL-8 production by human PBMC. The ED₅₀ for this effect is 5-10ng/ml corresponding to a Specific Activity of 100,000-200,000IU/mg.

