

Recombinant Human TNFSF13B

Cat. No. TNFSF13B-567H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human B Lymphocyte Stimulator produced in <i>E. Coli</i> is a single, non-glycosylated polypeptide chain containing 153 amino acids and having a molecular mass of 17007 Dalton. Recombinant BAFF is purified by proprietary chromatographic techniques.
Species	Human
Source	E.coli
Description	The TNF-related ligand, B cell-activating factor belonging to the TNF family (BAFF), is necessary for normal B cell development and survival, and specifically binds the receptors transmembrane activator and calcium-modulator and cyclophilin ligand interactor (TACI), B cell maturation Ag (BCMA), and BAFF-R. Using specific mAbs, BAFF-R was found to be the predominant BAFF receptor expressed on peripheral B cells, in both humans and mice, and antagonist mAbs to BAFF-R blocked BAFF-mediated costimulation of anti- micro responses. The other BAFF receptors showed a much more restricted expression pattern, suggestive of specialized roles.
Amino Acid Sequence	The sequence of the first five N-terminal amino acids was determined and was found to be Met-Ala-Val-Gln-Gly.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation	Each mg contains 1.6mg mannitol and 1.2mg HSA.

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Solubility	It is recommended to reconstitute the lyophilized BAFF in sterile 18MΩ-cm H ₂ O not less than 100g/ml, which can then be further diluted to other aqueous solutions.
Stability	Lyophilized BAFF although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution BAFF should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please avoid freeze-thaw cycles.
Purity	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Anion-exchange FPLC. (c) Analysis by reducing and non-reducing SDS-PAGE Silver Stained gel.
Dimers And Aggregates	Less than 1% as determined by silver-stained SDS-PAGE gel analysis.
Biological Activity	Feldan Bio's recombinant B Lymphocyte Stimulator is fully biologically active when compared to standard. The activity is determined by the dose-dependant stimulation of IL-8 production by human PBMC. The ED50 for this effect is less than 10ng/ml. Please note: results may vary with PBMC donors.
Endotoxin	Less than 0.1 ng/g (IEU/g) of BAFF.
Protein Content	Protein quantitation was carried out by two independent methods: 1. UV spectroscopy at 280. 2. Analysis by RP-HPLC, using a standard solution of BAFF as a Reference Standard.

GENE INFORMATION

Gene Name	tumor necrosis factor (ligand)superfamily, member 13b [Homo sapiens]
Synonyms	tumor necrosis factor (ligand) superfamily, member 13b; DTL; BAFF; BLYS; CD257; TALL1; THANK; ZTNF4; TALL-1; TNFSF20; TNFSF13B; delta BAFF; B-lymphocyte

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stimulator;tumor necrosis factor superfamily, member 13b; B-cell activating factor; ApoL related ligand TALL-1; TNF homolog that activates apoptosis; dendritic cell-derived TNF-like molecule; tumor necrosis factor-like protein ZTNF4; TNF and ApoL-related leukocyte expressed ligand 1; tumor necrosis factor (ligand) superfamily, member 20; BLyS; OTTHUMP00000018691; B cell-activating factor; B-lymphocyte stimulator; CD257 antigen; Dendritic cell-derived TNF-like molecule; TNF- and APOL-related leukocyte expressed ligand 1

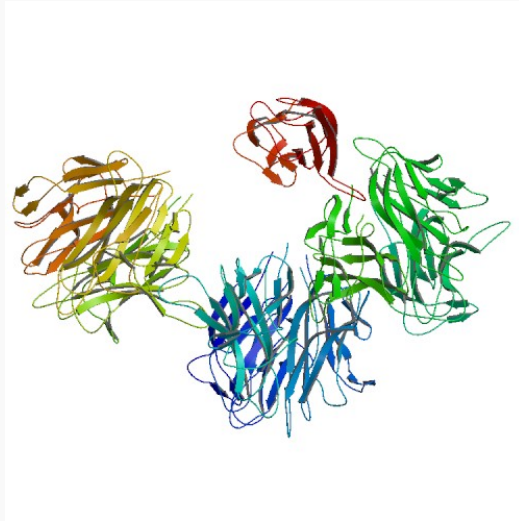
Gene ID	10673
mRNA Refseq	NM_001145645
Protein Refseq	NP_001139117
MIM	603969
UniProt ID	Q9Y275
Chromosome Location	13q32-q34
Pathway	Cytokine-cytokine receptor interaction
Function	tumor necrosis factor receptor binding; cytokine activity

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