

Active Recombinant Human Tumor Necrosis Factor (ligand) Superfamily, Member 13B

Cat. No. TNFSF13B-301H Lot. No. (See product label)

SPECIFICATION

Product Overview	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, Recombinant Human B Lymphocyte Stimulator produced in E.Coli is a single, non-glycosylated polypeptide chain containing 153 amino acids and having a molecular mass of 17007 Dalton.
Species	Human
Source	E.coli
Description	B-cell activating factor (BAFF) also known as tumor necrosis factor ligand superfamily member 13B is a protein that in humans is encoded by the TNFLSF13B gene.
Form	Each mg contains 1.6mg mannitol and 1.2mg HSA.
Purity	Purity Greater than 98% as determined by: Analysis by RP-HPLC. Reducing and non-reducing SDS-PAGE.
Bio-activity	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.

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Physical Appearance	Sterile Filtered white lyophilized (freeze-dried) powder.
Solubility	It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg μ s/ml, which can be further diluted into other aqueous solutions.
Purity Greater than 98% as determined by	Analysis by RP-HPLC. Reducing and non-reducing SDS-PAGE.
Protein Content determined by	UV spectroscopy at 280 nm. Analysis by RP-HPLC calibrated against a known standard. Quantitation on SDS-PAGE against a known standard.
Endotoxin Level	Endotoxin level as measured by LAL is <0.01ng/ μ g or <0.1EU/ μ g.
Amino acid sequence	MAVQGPEETV TQDCLQLIAD SETPTIQKGS YTFVPWLLSF KRGSALLEEKE NKILVKETGY FFIYGQVLYT DKTYAMGHLI QRKKVHVFGD ELSLVTLFRC IQNMPETLPN NSCYSAGIAK LEEGDELQLA IPRENAQISL DGDVTFFGAL KLL
Storage	Lyophilized product is very stable at -20 degrees. Reconstituted material should be aliquoted and frozen at -20. It is recommended to add a carrier protein (0.1% HSA or BSA) for long term storage.

GENE INFORMATION

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

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necrosis factor ligand superfamily member 13B; TNF- and APOL-related leukocyte expressed ligand 1; B lymphocyte stimulator; B cell-activating factor; Tumor necrosis factor ligand superfamily member 13b, membrane form; Tumor necrosis factor ligand superfamily member 13b, soluble form

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; Intestinal immune network for IgA production; Rheumatoid arthritis

Function cytokine activity; tumor necrosis factor receptor binding; protein binding; receptor binding

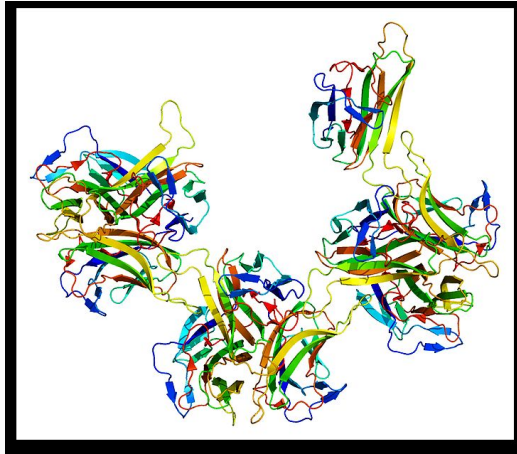
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PDB rendering based
on 1jh5.



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