

Active Recombinant Human TNFSF13B protein

Cat. No. TNFSF13B-333H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human TNFSF13B protein was expressed in Escherichia coli.

Species Human

Source E.coli

ProteinLength 153

Description

B-cell activating factor (BAFF), also known as Blys, TALL-1, TNAK, and zTNF4, is a TNF ligand superfamily member and has been designated TNFSF13B. Produced by macrophages, dendritic cells, and T lymphocytes, BAFF promotes the survival of B cells and is essential for B cell maturation. BAFF binds to three TNF receptor superfamily members: B-cell maturation antigen (BCMA/TNFRSF17), transmembrane activator and calcium-modulator and cyclophilin ligand interactor (TACI/TNFRSF13B) and BAFF receptor (BAFF R/BR3/TNFRSF 13C). These receptors are type III transmembrane proteins that lack a signal peptide. Whereas TACI and BCMA bind BAFF and another TNF superfamily ligand, APRIL (a proliferation-inducing ligand), BAFF R selectively binds BAFF. The BAFF R extracellular domain lacks the TNF receptor canonical cysteine-rich domain (CRD) and contains only a partial CRD with four cysteine residues. Human and mouse BAFF R share 56 % a.a. sequence identity. BAFF R is highly expressed in spleen, lymph node and resting B cells. It is also expressed at lower levels in activated B cell, in resting CD4+ T cells, in thymus and peripheral blood leukocytes.

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Form	Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.0.
Bio-activity	Fully biologically active when compared to standard. The ED50 as determined by a mouse splenocyte survival assay is 0.5-2 µg/ml.
Molecular Mass	Approximately 17.2 kDa, a single non-glycosylated polypeptide chain containing 153 amino acids.
AA Sequence	MAVQGPEETVTQDCLQLIADSETPTIQKGSYTFVPWLLSFKRGSAL EEKENKILVKET GYFFIYGQVLYTDKTYAMGHLIQRKKVHVFGDELSLVTLFRCIQNPETLPNNSCYS AGIAKLEEGDELQLAIPRENAQISLDGDVTFFGALKLL
Endotoxin	Less than 1 EU/µg of rHuBAFF as determined by LAL method.
Purity	>95% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤-20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name TNFSF13B

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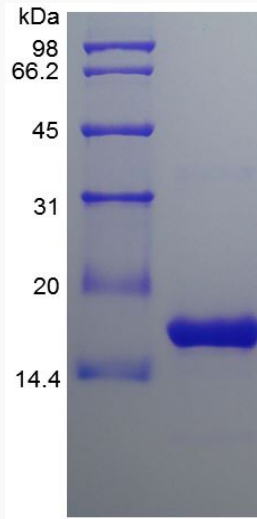
Official Symbol	TNFSF13B
Synonyms	TNFSF13B; tumor necrosis factor (ligand) superfamily, member 13b; TNFSF20; tumor necrosis factor ligand superfamily member 13B; BAFF; BLYS; CD257; TALL 1; TALL1; THANK; delta BAFF; Delta4 BAFF; B-lymphocyte stimulator; B-cell-activating factor; ApoL related ligand TALL-1; 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; DTL; ZTNF4; TALL-1;
Gene ID	10673
mRNA Refseq	NM_001145645
Protein Refseq	NP_001139117
MIM	603969
UniProt ID	Q9Y275

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**SDS-PAGE of
TNFSF13B-333H**



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