

Active Recombinant Human TNFSF13B

Cat. No. TNFSF13B-135H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human tumor necrosis factor (ligand) encoding the human BAFF protein sequence (containing the signal peptide sequence and the mature BAFF sequence) was expressed in modified <i>human 293 cells</i> .
Species	Human
Source	HEK293
Description	BAFF is a type II membrane glycoprotein expressed by T cells, dendritic cells, macrophages and neutrophils. BAFF is predominantly a B cell survival factor and specifically promotes the proliferation and survival of activated B cells by inducing expression of pro-survival oncogenes including Bcl-xL, Bcl-2 and Mcl-1. BAFF also mediates Ig switching to IgD as well as B cell maturation, suggesting it plays a role in humoral immune responses.
Amino Acid Sequence	AVQGPEETVTQDCLQLIADSETPTIQKGSYTFVPWLLSFKRGSAALEEKENKILVKETG YFFIYGQVLYTDKTYAMGHLIQRKKVHVFGDELSLVTLFRCIQNMPETLPNNSCYSA GIAKLEEGDELQLAIPRENAQISLDGDVTFFGALKLL.
Molecular Mass	BAFFB migrates as a band between 15 and 20 kDa in SDS-PAGE. This compares with the predicted molecular mass of 17 kDa.
pI	Due to post-translational modifications the Symansis BAFFB separates into a number of glycoforms with a pI between 4.7 and 5.5 on 2D PAGE. This is in agreement with the unmodified BAFF that has a predicted pI of 4.9.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	>95%, as determined by SDS-PAGE and visualized by Coomassie Brilliant Blue.
Formulation	When reconstituted in 0.5 ml sterile phosphate-buffered saline, the solution will contain 1% human serum albumin (HSA) and 10% trehalose.
Reconstitution	It is recommended that 0.5 ml of sterile phosphate-buffered saline be added to the vial.
Storage	Lyophilized products should be stored at 2 to 8°C. Following reconstitution short-term storage at 4°C is recommended, with longer-term storage in aliquots at -18 to -20°C. Repeated freeze thawing is not recommended.
Activity	The ED ₅₀ of BAFFB is typically 5-10 ng/ml as measured by its ability to neutralise dexamethasone toxicity using the RPMI 8226 cell line.

GENE INFORMATION

Gene Name	TNFSF13B tumor necrosis factor (ligand) superfamily, member 13b [Homo sapiens]
Synonyms	TNFSF13B; tumor necrosis factor (ligand) superfamily, member 13b; DTL; BAFF; BLYS; CD257; TALL1; THANK; ZTNF4; TALL-1; TNFSF20; TNFSF13B; Tumor necrosis factor ligand superfamily member 13B; TNF- and APOL-related leukocyte expressed ligand 1; B lymphocyte stimulator; B cell-activating factor; Dendritic cell-derived TNF-like molecule CD_antigen=CD257; 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

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Protein Refseq	NP_001139117
UniProt ID	Q9Y275
Chromosome Location	13q32-q34
MIM	603969
Pathway	Cytokine-cytokine receptor interaction
Function	cytokine activity; tumor necrosis factor receptor binding
PDB rendering based on 1jh5.	