

BAFF/BLyS Active Protein | TNFSF13B active protein

BAFF/BLyS Protein, Human, Recombinant (hFc Tag)

CATALOG #
AAA257823

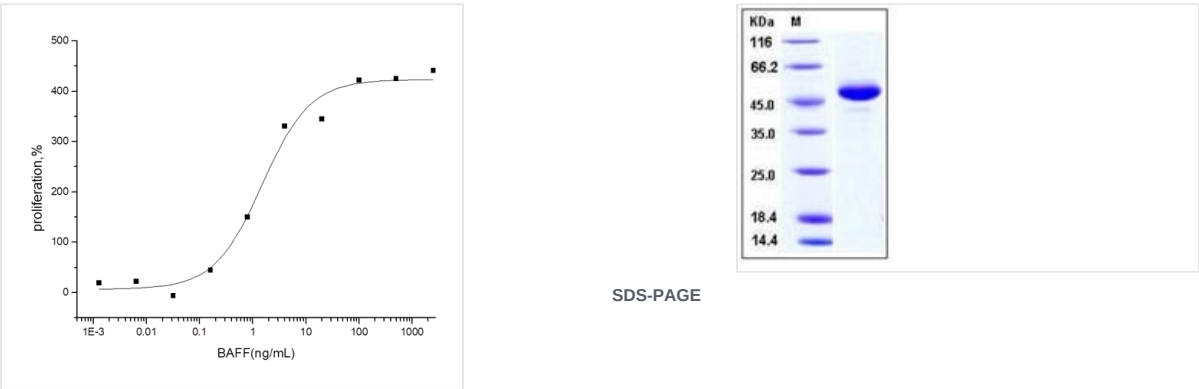
HOST
HEK293 Cells

PRODUCT SYNONYMS

BAFF/BLyS; BAFF/BLyS Protein; Human; Recombinant (hFc Tag); Human BLyS/TNFSF13B/BAFF Protein (Fc Tag); BAFF Protein; BLyS Protein; CD257 Protein; DTL Protein; TALL-1 Protein; TALL1 Protein; THANK Protein; TNFSF20 Protein; ZTNF4 Protein; tumor necrosis factor (ligand) superfamily, member 13b; TNFSF13B active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>95% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Ala134-Leu 285
Species	Human
Activity	1. Measured by its binding ability in a functional ELISA. Immobilized recombinant human BAFF at 1ug/mL (100uL/well) can bind human TNFRSF17. The EC50 of human TNFRSF17 is 0.07ug/mL. 2. Measured in a cell proliferation assay in mouse splenocytes. The ED₅₀ for this effect is typically 0.6-3.2ng/mL.
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Glu 20
Tag	N-human IgG1-Fc
Protein Construction	A DNA sequence encoding the soluble form of human BAFF (Q9Y275-1)(Ala 134-Leu 285) was fused with the Fc region of human IgG1 at the N-terminus.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.



Application Data
Measured in a cell proliferation assay in mouse splenocytes. The ED50 for this effect is typically 0.6-3.2 ng/mL.

ADDITIONAL INFORMATION

Related Product Information for TNFSF13B active protein	Background: B lymphocyte stimulator (BLyS), also known as TNFSF13B, CD257 and BAFF, is a single-pass type II membrane protein, which belongs to the tumor necrosis factor family. BAFF is abundantly expressed in peripheral blood Leukocytes and is specifically expressed in monocytes and macrophages. BAFF is a cytokine and serves as a ligand for receptors TNFRSF13B (TACI), TNFRSF17 (BCMA), and TNFRSF13C (BAFFR). These receptors are a prominent factor in B cell differentiation, homeostasis, and selection. BLyS levels affect survival signals and selective apoptosis of autoantibody-producing B cells. Thus, it acts as a potent B cell activator and has been shown to play an important role in the proliferation and differentiation of B cells. Overexpression of BLyS in mice can lead to clinical and serological features of systemic lupus erythematosus (SLE) and Sjögren's syndrome (SS). BLyS is an attractive therapeutic target in human rheumatic diseases. The ability of BLyS to regulate both the size and repertoire of the peripheral B cell compartment raises the possibility that BLyS and antagonists thereof may form the basis of a therapeutic trichotomy. As an agonist, BLyS protein may enhance humoral immunity in congenital or acquired immunodeficiencies such as those resulting from viral infection or cancer therapy.
References	Nardelli B, et al. (2002) B lymphocyte stimulator (BLyS): a therapeutic trichotomy for the treatment of B lymphocyte diseases. <i>Leuk Lymphoma</i> . 43(7): 1367-73. Stohl W. (2006) Therapeutic targeting of B lymphocyte stimulator (BLyS) in the rheumatic diseases. <i>Endocr Metab Immune Disord Drug Targets</i> . 6(4): 51-8. Cancro MP, et al. (2009) The role of B lymphocyte stimulator (BLyS) in systemic lupus erythematosus. <i>J Clin Invest</i> . 119(5): 1066-73.

NCBI AND UNIPROT INFORMATION

NCBI GI #	224548983
NCBI GeneID	10673
NCBI Accession #	NP_001139117.1
NCBI GenBank Nucleotide #	NM_001145645.2
UniProt Accession #	Q9Y275; Q6FHD6; Q7Z5J2; E0ADT7
Molecular Weight	17,578 Da
NCBI Official Full Name	tumor necrosis factor ligand superfamily member 13B isoform 2
NCBI Official Synonym Full Names	tumor necrosis factor (ligand) superfamily, member 13b
NCBI Official Symbol	TNFSF13B
NCBI Official Synonym Symbols	DTL; BAFF; BLYS; CD257; TALL1; THANK; ZTNF4; TALL-1; TNFSF20

NCBI Protein Information	tumor necrosis factor ligand superfamily member 13B; ApoL related ligand TALL-1; B-cell-activating factor; B-lymphocyte stimulator; Delta4 BAFF; TNF and ApoL-related leukocyte expressed ligand 1; TNF homolog that activates apoptosis; delta BAFF; dendritic
UniProt Protein Name	Tumor necrosis factor ligand superfamily member 13B
UniProt Gene Name	TNFSF13B
UniProt Synonym Gene Names	BAFF; BLYS; TALL1; TNFSF20; ZTNF4; BLYS; TALL-1
UniProt Entry Name	TN13B_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/hek293-cells-tnfsf13b-active-protein/baff-blys/257823>