

For Research Use Only

# Recombinant Human BAFF/TNFSF13B protein (hFc Tag)



Catalog Number: Eg0155

## Basic Information

**ED50:**  
0.6-2.4 ng/mL

**GeneID:**  
10673

**Species:**  
Human

**Accession:**  
Q9Y275-1

**Purity:**  
>90 %, SDS-PAGE

## Technical Specifications

**Purity:**  
>90 %, SDS-PAGE

**Endotoxin Level:**  
<1.0 EU/  $\mu$ g protein, LAL method

**Source:**  
HEK293-derived Human BAFF protein Ala134-Leu285 (Accession# Q9Y275-1) with a human IgG1 Fc tag at the N-terminus.

**Predicted Molecular Mass:**  
43 kDa

**SDS-PAGE:**  
45-50 kDa, reducing (R) conditions

**Formulation:**  
Lyophilized from sterile PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Immobilized Human BCMA (Myc tag, His tag) at 2  $\mu$ g/mL (100  $\mu$ L/well) can bind Human BAFF (hFc tag) with a linear range of 0.6-2.4 ng/mL.

## Storage and Shipping

**Storage:**  
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- 12 months from the date of receipt, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

**Shipping:**  
The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

TNFSF13B, also known as BAFF, BLYS, TALL1, TNFSF20, ZTNF4 and CD257, is a cytokine that binds to TNFRSF13B/TACI and TNFRSF17/BCMA. This cytokine is expressed in B lineage cells, and acts as a potent B cell activator. The BAFF system promotes B cell survival and differentiation and plays a prominent role in the pathogenesis of autoimmune diseases. It has been shown that BAFF inhibitors are in clinical trials for systemic lupus erythematosus with significant efficacy.

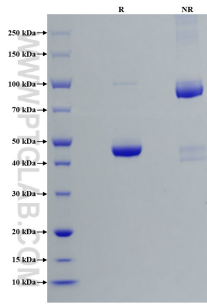
## References

1. Cristian R Smulski et al (2018). Front Immunol. Oct 8;9:2285.
2. Edina Schweighoffer et al (2021). Curr Opin Immunol. Aug;71:124-131.
3. Anne Davidson. (2010). Curr Opin Immunol. Dec;22(6):732-9.
4. Shingo Nakayamada et al (2016). Inflamm Regen. Jul 21;36:6.

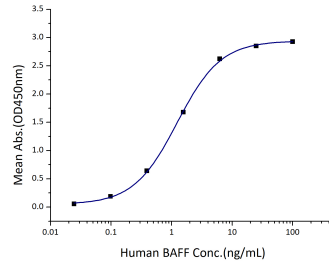
## Synonyms

BAFF, BLYS, CD257, DTL, TALL1, TALL-1, THANK, TNFSF13B, TNFSF20, ZTNF4

## Selected Validation Data



Purity of Recombinant Human BAFF was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.



Immobilized Human BCMA (Myc tag, His tag) at  $2 \mu\text{g/mL}$  ( $100 \mu\text{L/well}$ ) can bind Human BAFF (hFc tag) with a linear range of 0.6-2.4 ng/mL.

For technical support and original validation data for this product please contact

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