

For Research Use Only

Recombinant Human BAFF/TNFSF13B protein (hFc Tag)



Catalog Number: Eg0155

Basic Information

Species:

Human

Purity:

>90 %, SDS-PAGE

Tag:

hFc Tag

EC50:

0.6-2.4 ng/mL

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ μ 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.

GeneID:

10673

Accession:

Q9Y275-1

Predicted Molecular Mass:

43 kDa

SDS-PAGE:

45-50 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 μ m filtered solution in 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 μ g/mL (100 μ 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.

- Until expiry date, -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.

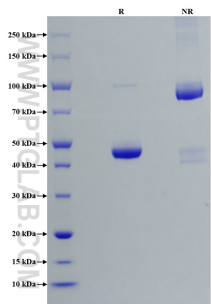
References

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.

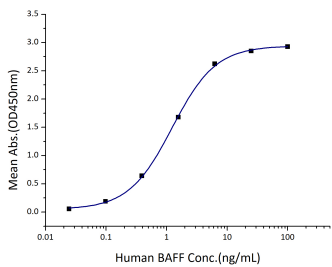
Synonyms

TNFSF13B, B cell activating factor, B lymphocyte stimulator, BAFF, B-cell-activating factor

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 μ g/mL (100 μ L/well) can bind Human BAFF (hFc tag) with a linear range of 0.6-2.4 ng/mL.