

Human BLyS / TNFSF13B / BAFF Protein (Fc Tag)

Catalog Number: 10056-H01H



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

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

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.

Source: Human

Expression Host: Human Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Bio-Activity

1. Measured by its binding ability in a functional ELISA. Immobilized recombinant human BAFF at 1 µg/mL (100 µl/well) can bind human TNFRSF17. The EC₅₀ of human TNFRSF17 is 0.07 µg/mL.
2. Measured in a cell proliferation assay using anti-IgM stimulated mouse splenic cells. The ED₅₀ for this effect is typically 50-150 ng/mL.

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Glu 20

Molecular Mass:

The recombinant human BAFF/Fc is a disulfide-linked homodimeric protein. The reduced monomer consists of 389 amino acids and has a predicted molecular mass of 43.7 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rhBAFF/Fc monomer is approximately 48-55 kDa due to glycosylation.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

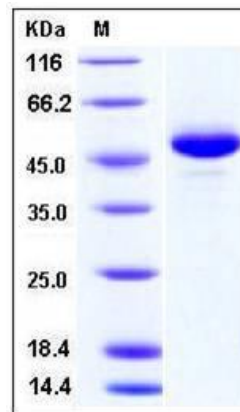
Usage Guide

Storage:

Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

SDS-PAGE:



Reconstitution:

Detailed reconstitution instructions are sent along with the products.

Protein Description

Tumor necrosis factor ligand superfamily member 13B (TNFSF13B), also known as B cell-activating factor, CD257 and BAFF, is single-pass type II membrane protein. It 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 also found in the spleen, lymph node, bone marrow, T-cells and dendritic cells. A lower expression of BAFF is found in placenta, heart, lung, fetal liver, thymus, and pancreas. BAFF is a cytokine and serves as a ligand for receptors TNFRSF13B (TACI), TNFRSF17 (BCMA), and TNFRSF13C (BAFFR). These receptors are expressed mainly on mature B lymphocytes, and TACI binds with lowest affinity. TACI binds a protein similar to BAFF called A Proliferation Inducing Ligand (APRIL) with high. BCMA displays an intermediate binding phenotype and performs functions with either BAFF or APRIL to varying degrees. BAFF acts as a potent B cell activator and has been shown to play an important role in the proliferation and differentiation of B cells.

References

1. Shu, HB, et al., 1999, J. Leukoc. Biol. 65 (5): 680-3.
2. Schneider, P. et al., 1999, J. Exp. Med. 189 (11): 1747-56.
3. Wu, Y. et al., 2000, J. Biol. Chem. 275 (45): 35478-85.
4. Oren, DA. et al., 2002, Nat. Struct. Biol. 9: 288-292.
5. Daridon, C. et al., 2008, Autoimmun Rev 7 (4): 267-71.

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