

Cynomolgus BLyS / TNFSF13B / BAFF Protein (Fc Tag)

Catalog Number: 90267-C01H



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

TNFSF13B

Protein Construction:

A DNA sequence encoding the cynomolgus TNFSF13B (F7H548) (Ala134-Leu285) was expressed with the Fc region of human IgG1 at the C-terminus.

Source: Cynomolgus

Expression Host: Human Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Cynomolgus Fc-TNFSF13B at 10 µg/ml (100 µl/well) can bind biotinylated Cynomolgus TNFRSF17-Fc (Cat:90103-C02H), the EC50 of biotinylated Cynomolgus TNFRSF17-Fc (Cat:90103-C02H) is 4.5-10.5 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

Molecular Mass:

The recombinant cynomolgus TNFSF13B is a disulfide-linked homodimer. The reduced monomer comprises 412 amino acids and has a calculated molecular mass of 45.5 KDa. The apparent molecular mass of the protein is approximately 47 KDa respectively in SDS-PAGE.

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.

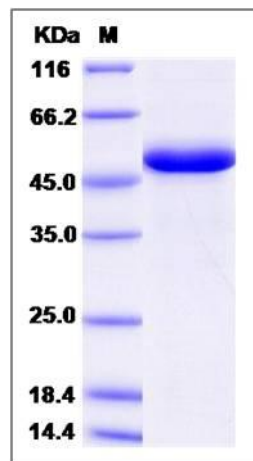
Usage Guide

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 I I 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: 288-92.
5. Daridon C. et al., 2008, Autoimmun Rev. 7 (4): 267-71.

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Fax :+86-10-51029969 • Tel:+86-400-890-9989 • <http://www.sinobiological.com>