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Datasheet for ABIN1019692

BAFF Protein (AA 4-285) (His tag)

2 Images

Overview

Quantity:	100 µg
Target:	BAFF (TNFSF13B)
Protein Characteristics:	AA 4-285
Origin:	Human
Source:	Tobacco (<i>Nicotiana benthamiana</i>)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This BAFF protein is labelled with His tag.
Application:	Western Blotting (WB), Cell Culture (CC)

Product Details

Sequence:	HHHHHHHHHH AVQGPEETVT QDCLQLIADS ETPTIQKGSY TFVPWLLSFK RGSALLEEKEN KILVKETGYF FIYQVLYTD KTYAMGHLIQ RKKVHVFGDE LSLVTLFRCI QNMPETLPNN SCYSAGIAKL EEGDELQLAI PRENAQISLD GDVTFFGALK LL
Specificity:	Serological Identification: The protein was electrophoresed under reducing condition on a 15 % SDS-polyacrylamide gel, transferred by electroblotting to a NC membrane and visualized by immune-detection with specific BAFF antibody.
Characteristics:	Serological Identification: The protein was electrophoresed under reducing condition on a 15 % SDS-polyacrylamide gel transferred by electroblotting to a NC membrane and visualized by immune-detection with specific BAFF antibody. Molecular formula: C830H1277N223O242S5.

Product Details

Isoelectric Point: 63.

Extinction coefficient: E 0.1 % (1g/L) = 0.791 (A 280 nm).

This product contains no animal-derived components or impurities. Produced by transient expression of human

Purification: recombinant Human B lymphocyte activating factor (BAFF) in non-transgenic plants. BAFF contains a 10-His-tag at the N-terminal end and is purified by sequential chromatography (Affinity and Anionic exchange -FPLC).

Purity: > 97 % by SDS polyacrylamide gel electrophoresis and the gel was stained with Coomassie blue.

Endotoxin Level: < 0.04 EU/μg protein (LAL method)

Target Details

Target: BAFF (TNFSF13B)

Alternative Name: TNFSF13B ([TNFSF13B Products](#))

Background: Synonyms: BLyS, THANK, TALL, zTNF4, TNFS20
BAFF (B lymphocyte activating factor) is a member of the tumor necrosis factor (TNF) ligand family which is expressed in T Cells, macrophages, monocytes and dendritic cells. BAFF enhances B cell survival in vitro and has emerged as a key regulator of peripheral B cell and it is vital homeostatic cytokine for B cells that helps regulate both innate and adaptive immune responses. BAFF binds to three TNF receptors: B-cell maturation antigen (BCMA/TNFRSF17), transmembrane activator and calcium modulator and cyclophilin ligand interactor(TACI/TNFRSF13B) and BAFF receptor (BAFF R/BR3/TNFRSF 13C).The human BAFF gene code for a 285 amino acids type II transmembrane protein. Recombinant human soluble BAFF is a 151 amino acids containing the TNF-like portion of the extracellular domain of BAFF.

Molecular Weight: 18 - 20 kDa

Gene ID: 10673, 603969

UniProt: [Q9Y275](#)

Pathways: [NF-kappaB Signaling](#), [Production of Molecular Mediator of Immune Response](#)

Application Details

Comment: Biological Activity: The activity is determined by dose-dependent response of proliferation Anti IgG M stimulated B cell from Human PBMC. Cell proliferation was measured by MTT method.

Application Details

The ED50 for this effect is typically < 10 ng/ml in presence of goat anti-human IgM (μ chain specific).

Recombinant human BAFF is a glycosylated polypeptide chain containing 151 amino acids (134-285 aa Q9Y275 (TN13B_HUMAN) fused to 10 His tag at N-terminal. rHuman BAFF has a molecular mass between 18 and 20kDa. Human recombinant protein expressed in *Nicotiana benthamiana*. Recombinant human B lymphocyte activating factor (BAFF) contains a 10-His-tag at the N-terminal end, is produced by transient expression in non-transgenic plants and is purified by sequential chromatography (FPLC). This product contains no animal-derived components or impurities. Animal free product.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Lyophilized protein should be reconstituted in water to a concentration of 25-50 ng/ μ L. Upon reconstitution, It can be stored in working aliquots at -20 °C for future use.

Buffer: 20 mM PBS buffer pH 7 and 0.2 M NaCl

Storage: 4 °C

Images

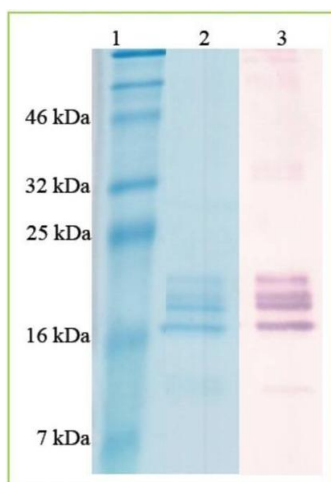


Image 1. Lanes1-2: SDS-PAGE analysis of recombinant BAFF. Samples were loaded in 15 % SDS-polyacrylamide gel and stained with Coomassie blue. Lane 1: Molecular weight marker (kDa), Lane2: contains 300 ng of rhuman BAFF. Lane3: Analysis of recombinant BAFF with specific anti-human BAFF by Western Blot, contains 300 ng of rhuman BAFF. All bands shown in lane2-3 have been identify by MALDI-TOFF as recombinant BAFF

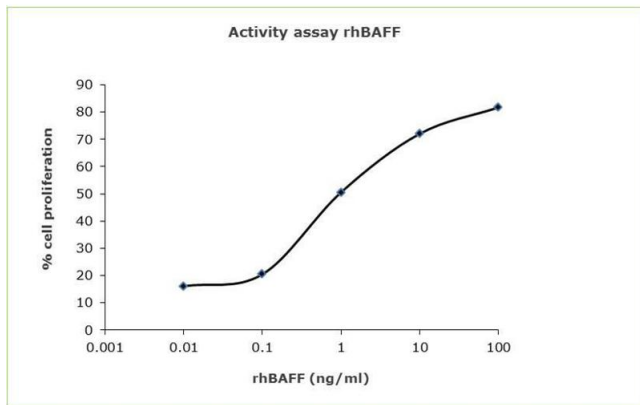


Image 2. The activity is determined by dose-dependent response of proliferation Anti IgG M stimulated B cell from Human PBMC. Cell proliferation was measured by MTT method.