

Active Recombinant Human TNFSF13B, His-tagged, Animal Free

Cat. No. TNFSF13B-140H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

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.

Species

Human

Source

Nicotiana Benthamiana

ProteinLength

134-285 a.a.

Description

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. It is also known as BlyS, THANK, TALL, zTNF4 and TNFS20. 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

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|-----------------------|---|
| | 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. |
| Form | Recombinant human BAFF is lyophilized from 20 mM PBS buffer pH 7 and 0.2 M NaCl. |
| Bio-activity | The activity is determined by dose-dependant stimulation of proliferation B cell from Human PBMC. Cell proliferation was measured by MTT method. *activity results may vary with PBMC donors. ED50 ≤ 50ng/ml |
| Molecular Mass | 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. |
| AA Sequence | HHHHHHHHHHAVQGPEETVTQDCLQLIADSETPTIQKGSYTFVPWLLSFKRGSAL EKENKILVKETGYFFIYGQ VLYTDKTYAMGHLIQRKKVHVFGDELSTLFRCIQNMP ETLPNNSCYSAGIAKLEEGDELQLAIPRENAQISLD GDVTFFGALKLL |
| Endotoxin | < 0.04="" eu="" ug="" protein="" (lal=""> |
| Purity | >97% by SDS-PAGE gel |
| Applications | Cell culture, Western blot |
| Storage | This lyophilized preparation is stable at 2-8o C for short term, long storage it should be kept at -20oC. Reconstituted protein should be stored in working aliquots at -20°C. Avoid repeated freeze-thaw cycles. |
| Reconstitution | Lyophilized protein should be reconstituted in water to a concentration of 25-50 ng/ul. |

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Upon reconstitution, It can be stored in working aliquots at -20°C for future use.
Optimal reconstitution please follow batch Quality Control sheet instructions.

GENE INFORMATION

Gene Name TNFSF13B tumor necrosis factor (ligand) superfamily, member 13b [Homo sapiens]

Official Symbol TNFSF13B

Synonyms

TNFSF13B; tumor necrosis factor (ligand) superfamily, member 13b; TNFSF20; tumor necrosis factor ligand superfamily member 13B; BAFF; BLYS; CD257; TALL 1; TALL1; THANK; delta BAFF; Delta4 BAFF; B-lymphocyte stimulator; B-cell-activating factor; ApoL related ligand TALL-1; TNF homolog that activates apoptosis; dendritic cell-derived TNF-like molecule; tumor necrosis factor-like protein ZTNF4; TNF and ApoL-related leukocyte expressed ligand 1; tumor necrosis factor (ligand) superfamily, member 20; DTL; ZTNF4; TALL-1;

Gene ID 10673

mRNA Refseq NM_001145645

Protein Refseq NP_001139117

MIM 603969

UniProt ID Q9Y275

Chromosome Location 13q32-q34

Pathway Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-

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cytokine receptor interaction, conserved biosystem; Intestinal immune network for IgA production, organism-specific biosystem; Intestinal immune network for IgA production, conserved biosystem; Rheumatoid arthritis, organism-specific biosystem; Rheumatoid arthritis, conserved biosystem;

Function

cytokine activity; protein binding; receptor binding; tumor necrosis factor receptor binding;

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