

## Recombinant Human TNFSF13B protein, His/S-tagged

**Cat. No.** TNFSF13B-219H    **Lot. No.** (See product label)

### SPECIFICATION

**Product Overview**      Recombinant Human TNFSF13B fused with His/S tag was expressed in E. coli.

**Species**                      Human

**Source**                        E.coli

**Description**

B-cell activating factor, also known as BAFF, TALL-1, TNAK, and zTNF4, is a member of the TNF ligand superfamily designated TNFSF13B. Produced by macrophages, dendritic cells, and T lymphocytes, BAFF promotes the survival of B cells and is essential for B cell maturation. BAFF binds to three TNF receptor superfamily members: 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). These receptors are type III transmembrane proteins lacking a signal peptide. Whereas TACI and BCMA bind BAFF and another TNF superfamily ligand, APRIL (a proliferation-inducing ligand), BAFF R selectively binds BAFF. The BAFF R extracellular domain lacks the TNF receptor canonical cysteine-rich domain (CRD) and contains only a partial CRD with four cysteine residues. Human and mouse BAFF R share 56% aa sequence identity. BAFF R is highly expressed in spleen, lymph node and resting B cells. It is also expressed at lower levels in activated B cell, resting CD4+ T cells, thymus and peripheral blood leukocytes.

**Form**                              Lyophilized from sterile PBS, pH 7.4

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**Purity** > 95 % as determined by SDS-PAGE

**Storage** Store at -70 centigrade. Avoid repeated freeze/thaw cycles.

## 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

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**Pathway**

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