

Recombinant Rat Tnfsf13b protein, His/S-tagged

Cat. No. Tnfsf13b-221R Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Rat Tnfsf13b fused with His/S tag was expressed in E. coli.

Species Rat

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 \[Rattus norvegicus \]](#)

Official Symbol [Tnfsf13b](#)

Synonyms TNFSF13B; tumor necrosis factor (ligand) superfamily, member 13b; tumor necrosis factor ligand superfamily member 13B; RGD1561519;

Gene ID [498666](#)

mRNA Refseq [NM_001109112](#)

Protein Refseq [NP_001102582](#)

Chromosome Location 16q12.5

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 tumor necrosis factor receptor binding;

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