

# Recombinant Human TNFSF13B therapeutic protein

**Cat. No.** TNFSF13B-P07H    **Lot. No.** (See product label)

## SPECIFICATION

**Product Overview**

The therapeutic protein is a fusion protein consisting of four BAFF binding domains fused to the N-terminus of the fragment crystallizable region (Fc) of a human antibody. BAFF is involved in B-cell survival, activation, and differentiation. Elevated levels of BAFF have been associated with several B-cell mediated autoimmune diseases, including systemic lupus erythematosus, lupus nephritis, rheumatoid arthritis, multiple sclerosis, Sjögren's syndrome, Graves' disease, and Hashimoto's thyroiditis. The protein binds to BAFF and inhibits interaction with BAFF receptors, thus decreasing B-cell survival and proliferation throughout the body. Improvements in disease activity have been observed in patients with systemic lupus erythematosus and rheumatoid arthritis following treatment with BAFF inhibitors in clinical trials.

**Species**                      Human

**Description**

The protein encoded by this gene is a cytokine that belongs to the tumor necrosis factor (TNF) ligand family. This cytokine is a ligand for receptors TNFRSF13B/TACI, TNFRSF17/BCMA, and TNFRSF13C/BAFFR. This cytokine is expressed in B cell lineage cells, and acts as a potent B cell activator. It has been also shown to play an important role in the proliferation and differentiation of B cells. Alternatively spliced transcript variants encoding distinct isoforms have been identified.

**Endotoxin**                      < 0.1 EU per µg of the protein

**Purity**                              >95%

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## 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-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;

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Rheumatoid arthritis, conserved biosystem;

**Function**

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

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