

# Active Recombinant Human Tumor Necrosis Factor (Ligand) Superfamily, Member 13b

**Cat. No.** TNFSF13B-352H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                   |
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| <b>Product Overview</b> | Recombinant human TNFSF13B was expressed in E. coli and purified by using conventional chromatography techniques.                                                                                                                                                                                                                                                                                 |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>           | Human                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>      | BAFF Receptor (BAFFR), a member of the TNFR superfamily, is highly expressed in spleen, lymph node, and resting B cells and to some extent in activated B cells, resting CD4+ cells and peripheral blood leukocytes. BAFFR is a type III transmembrane protein that binds with high specificity to BAFF (TNFSF13B). BAFFR/BAFF signaling plays a critical role in B cell survival and maturation. |
| <b>Form</b>             | Supplied as a lyophilized powder.                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Purity</b>           | >95% pure by SDS PAGE and HPLC                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Sequence</b>         | Region of BAFF Receptor protein corresponding to amino acids MRRGPRSLRG RDAPAPTPCV PAECFDLLVR HCVACGLLRT PRPKPAGASS PAPRTALQPQ ESGAGAGEA ALPLPG.                                                                                                                                                                                                                                                  |
| <b>Molecular Mass</b>   | 7.7 kDa                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Applications</b>     | Numerous applications are possible with this product and should be tested by the end                                                                                                                                                                                                                                                                                                              |

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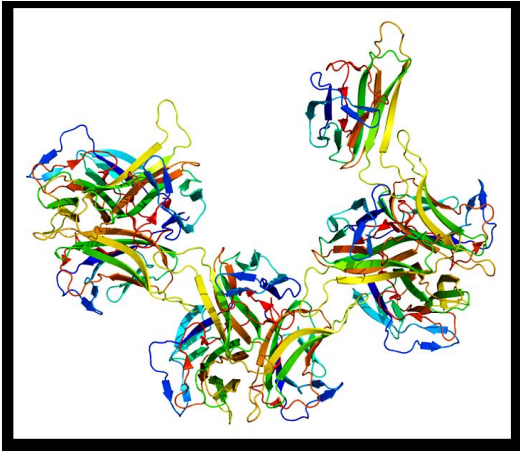
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|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                         | user under their own laboratory conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Endotoxin Levels</b> | Endotoxin level is less than 0.1 ng per ug (1 EU/ug)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Bioactivity</b>      | Determined by its ability to bl DEG Ck BAFF induced mouse splen DEG Cyte survival. The expected ED50 for this effect is 2.0-4.0 ug/ml in the presence of 1.0ug/ml of human soluble BAFF.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Storage</b>          | Store at 4 deg C until reconstitution. Following reconstitution aliquot and freeze at -20 deg C for long term storage. Avoid repeated freeze/thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Gene Name</b>        | TNFSF13B tumor necrosis factor (ligand) superfamily, member 13b [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Official Symbol</b>  | TNFSF13B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Synonyms</b>         | tumor necrosis factor (ligand) superfamily, member 13b; DTL; BAFF; BLYS; CD257; TALL1; THANK; ZTNF4; TALL-1; TNFSF20; TNFSF13B; delta BAFF; B-lymphocyte stimulator; tumor necrosis factor superfamily, member 13b; 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; BLYS; OTTHUMP00000018691; B cell-activating factor; B-lymphocyte stimulator; CD257 antigen; Dendritic cell-derived TNF-like molecule; TNF- and APOL-related leukocyte expressed ligand 1 |
| <b>Gene ID</b>          | 10673                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>mRNA Refseq</b>      | NM_001145645                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

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|------------------------------------|------------------------------------------------------------------------------------------------------------|
| <b>Protein Refseq</b>              | NP_001139117                                                                                               |
| <b>MIM</b>                         | 603969                                                                                                     |
| <b>UniProt ID</b>                  | Q9Y275                                                                                                     |
| <b>Chromosome Location</b>         | 13q32-q34                                                                                                  |
| <b>Pathway</b>                     | Cytokine-cytokine receptor interaction; Intestinal immune network for IgA production; Rheumatoid arthritis |
| <b>Function</b>                    | protein binding; tumor necrosis factor receptor binding; cytokine activity; receptor binding               |
| <b>PDBrendering based on 1jh5.</b> |                         |