

## Recombinant Human TNFSF18, His-tagged

**Cat. No.** TNFSF18-30485TH    **Lot. No.** (See product label)

### SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>    | Recombinant full-length soluble domain of Human TNFSF18 protein (125 aa), His-Tagged (14 aa). Calculated MW: 15.7 kDa.                                                                                                                                                                                                                                                                                            |
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>              | E.coli                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Description</b>         | 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 receptor TNFRSF18/AITR/GITR. It has been shown to modulate T lymphocyte survival in peripheral tissues. This cytokine is also found to be expressed in endothelial cells, and is thought to be important for interaction between T lymphocytes and endothelial cells. |
| <b>Conjugation</b>         | HIS                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Tissue specificity</b>  | Expressed at high levels in the small intestine, ovary, testis, kidney and endothelial cells.                                                                                                                                                                                                                                                                                                                     |
| <b>Biological activity</b> | Homologous to the extracellular domain of Human TNF18, Thr53-Ser177.                                                                                                                                                                                                                                                                                                                                              |
| <b>Form</b>                | Lyophilised: Lyophilized from 0.5 mg/ml in 0.03M Acetate buffer, pH 4. Add 0.2 ml of 0.1M Acetate buffer pH 4 and let the lyophilized pellet dissolve completely. For conversion into higher pH value, we recommend intensive dilution by relevant buffer to a c                                                                                                                                                  |

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|                                 |                                                                                                                                                               |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>                   | >95% by SDS-PAGE                                                                                                                                              |
| <b>Storage</b>                  | Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.                                                       |
| <b>Sequences of amino acids</b> | MRGSHHHHHH GMASTAKEPC MAKFGPLPSK WQMASSEPPC VNKVSDWKLE<br>ILQNGLYLIY GQVAPNANYNDVAPFEVRLY KNKDMIQTLT NKSKIQNVGG<br>TYELHVGDIT DLIFNSEHQV LKNNTYWGII LLANPQFIS |
| <b>Sequence Similarities</b>    | Belongs to the tumor necrosis factor family.                                                                                                                  |

## GENE INFORMATION

|                        |                                                                                                                                         |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | TNFSF18 tumor necrosis factor (ligand) superfamily, member 18 [ Homo sapiens ]                                                          |
| <b>Official Symbol</b> | TNFSF18                                                                                                                                 |
| <b>Synonyms</b>        | TNFSF18; tumor necrosis factor (ligand) superfamily, member 18; tumor necrosis factor ligand superfamily member 18; AITRL; hGITRL; TL6; |
| <b>Gene ID</b>         | 8995                                                                                                                                    |
| <b>mRNA Refseq</b>     | NM_005092                                                                                                                               |
| <b>Protein Refseq</b>  | NP_005083                                                                                                                               |
| <b>MIM</b>             | 603898                                                                                                                                  |
| <b>Uniprot ID</b>      | Q9UNG2                                                                                                                                  |
| <b>Chromosome</b>      | 1q23                                                                                                                                    |

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|-----------------|-----------------------------------------------------------------------------------------------------------------------------------|
| <b>Location</b> |                                                                                                                                   |
| <b>Pathway</b>  | Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; |
| <b>Function</b> | cytokine activity; receptor binding; tumor necrosis factor receptor binding;                                                      |

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