

## Recombinant Mouse Tnfsf18, His-tagged

**Cat. No.** Tnfsf18-2130M    **Lot. No.** (See product label)

### SPECIFICATION

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>  | Recombinant mouse extracellular domain of GITRL (aa 45-173) produced in <i>E. coli</i> fused at the C-terminus to a His-tag.                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>           | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>            | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Protein Length</b>    | 45-173 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>       | Tumor necrosis factor ligand superfamily member 18 is a protein that in humans is encoded by the TNFSF18 gene. 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>Source/Host</b>       | E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Purity</b>            | ≥90% (SDS-PAGE).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Concentration</b>     | 0.5mg/ml.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Endotoxin Content</b> | <1EU/mg protein (LAL test; Bio Whittaker).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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|                            |                                                                                                                                                  |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Specificity</b>         | Binds to mouse GITR.                                                                                                                             |
| <b>Formulation</b>         | Liquid. 0.2µm-filtered solution in 10mM glycine, pH 10.0.                                                                                        |
| <b>Application</b>         | rmsGITRL can be used for GITR-mediated NF-κB activation.                                                                                         |
| <b>Long Term Storage</b>   | -20°C.                                                                                                                                           |
| <b>Use/Stability</b>       | Working aliquots are stable for up to 3 months when stored at -20°C.                                                                             |
| <b>Handling</b>            | Avoid freeze/thaw cycles. After opening, prepare aliquots and store at -20°C.                                                                    |
| <b>GENE INFORMATION</b>    |                                                                                                                                                  |
| <b>Gene Name</b>           | Tnfsf18 tumor necrosis factor (ligand) superfamily, member 18 [ <i>Mus musculus</i> ]                                                            |
| <b>Synonyms</b>            | tumor necrosis factor (ligand) superfamily, member 18; Gitrl; Tnfsf18; GITR ligand; glucocorticoid-induced-tumor necrosis factor receptor ligand |
| <b>Gene ID</b>             | 240873                                                                                                                                           |
| <b>mRNA Refseq</b>         | NM_183391                                                                                                                                        |
| <b>Protein Refseq</b>      | NP_899247                                                                                                                                        |
| <b>Chromosome Location</b> | 1 H2.1; 1 84.95 cM                                                                                                                               |
| <b>Pathway</b>             | Cytokine-cytokine receptor interaction                                                                                                           |
| <b>Function</b>            | protein binding; receptor activity                                                                                                               |

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