

# Active Recombinant Mouse Tnfsf11 Protein, Fc-tagged, FITC conjugated

**Cat. No.** TNFSF11-860MF    **Lot. No.** (See product label)

## SPECIFICATION

|                                     |                                                                                                                                                                                                                                                                          |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>             | FITC conjugated recombinant extracellular domain of mouse TNFSF11 (BAA97257.1) (Arg 72-Asp 316) was fused with the Fc region of human IgG1 at the N-terminus.                                                                                                            |
| <b>Species</b>                      | Mouse                                                                                                                                                                                                                                                                    |
| <b>Source</b>                       | HEK293                                                                                                                                                                                                                                                                   |
| <b>ProteinLength</b>                | 505                                                                                                                                                                                                                                                                      |
| <b>Form</b>                         | Lyophilized                                                                                                                                                                                                                                                              |
| <b>Bio-activity</b>                 | Immobilized mouse Fc-TNFSF11 at 10 µg/mL (100 µL/well) can bind biotinylated human TNFRSF11B-His, The EC50 of biotinylated human TNFRSF11B-His is 0.07-0.17 µg/mL.                                                                                                       |
| <b>Molecular Mass</b>               | The recombinant mouse TNFSF11/Fc is a disulfide-linked homodimer. The reduced monomer comprises 505 amino acids and has a calculated molecular mass of 56 kDa. The apparent molecular mass of the monomer is approximately 50 kDa in SDS-PAGE under reducing conditions. |
| <b>N-terminal Sequence Analysis</b> | Glu                                                                                                                                                                                                                                                                      |
| <b>Endotoxin</b>                    | < 1.0 EU/ µg of the protein as determined by the LAL method.                                                                                                                                                                                                             |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                       |                                                                                                                                                                                         |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | > 87 % as determined by SDS-PAGE                                                                                                                                                        |
| <b>Characteristic</b> | Disulfide-linked homodimer<br>Labeled with FITC via amines<br>Excitation source: 488 nm spectral line, argon-ion laser<br>Excitation Wavelength: 488 nm<br>Emission Wavelength: 535 nm  |
| <b>Stability</b>      | Samples are stable for up to 12 months from date of receipt at -70 centigrade.                                                                                                          |
| <b>Storage</b>        | Store it under sterile conditions at -20 to-70 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.                      |
| <b>Storage Buffer</b> | Lyophilized from sterile PBS, pH 7.4, 5%-8% trehalose and mannitol.                                                                                                                     |
| <b>Reconstitution</b> | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents. |
| <b>Conjugation</b>    | FITC                                                                                                                                                                                    |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                 |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Tnfsf11 tumor necrosis factor (ligand) superfamily, member 11 [ Mus musculus ]                                                                                                                                                                                  |
| <b>Official Symbol</b> | TNFSF11                                                                                                                                                                                                                                                         |
| <b>Synonyms</b>        | TNFSF11; tumor necrosis factor (ligand) superfamily, member 11; tumor necrosis factor ligand superfamily member 11; OPG ligand; osteoprotegerin ligand; osteoclast differentiation factor; receptor activator of NF-kappaB ligand; TNF-related activation-induc |

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|----------------|-----------|
| Gene ID        | 21943     |
| mRNA Refseq    | NM_011613 |
| Protein Refseq | NP_035743 |

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