

## Active Recombinant Mouse Tgfbr1, Fc Chimera

**Cat. No.** Tgfbr1-439M    **Lot. No.** (See product label)

### SPECIFICATION

|                             |                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>     | Recombinant Mouse Tgfbr1 (Accession # BAA05023) was produced in Spodoptera frugiperda, Sf 21 (baculovirus)-derived.                                                                                                                                                                                                                                                                       |
| <b>Species</b>              | Mouse                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>               | Sf21 Cells                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Predicted N Terminal</b> | Ala21 & Thr22                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Form</b>                 | Lyophilized from a 0.2 µ filtered solution in PBS.                                                                                                                                                                                                                                                                                                                                        |
| <b>Bio-activity</b>         | Measured by its binding ability in a functional ELISA. When Recombinant Rat Endoglin/CD10 <sup>5</sup> Fc Chimera or Recombinant Mouse Endoglin/CD10 <sup>5</sup> Fc Chimera is immobilized at 2 µg/mL (100 µL/well), the concentration of Recombinant Mouse TGF-beta RI/ALK-5 Fc Chimera that produces 50% of the optimal binding response is found to be approximately 0.25-1.25 µg/mL. |
| <b>Molecular Mass</b>       | Recombinant Mouse Tgfbr1, Fc Chimera has a calculated MW of 37.5 kDa (monomer). In SDS-PAGE migrates as 40-50 kDa, reducing conditions.                                                                                                                                                                                                                                                   |
| <b>Purity</b>               | >90%, by SDS-PAGE under reducing conditions and visualized by silver stain.                                                                                                                                                                                                                                                                                                               |
| <b>Storage</b>              | Avoid repeated freeze-thaw cycles. No activity loss was observed after storage at: In lyophilized state for 1 year (4°C); After reconstitution under sterile conditions for 3 months (-70°C).                                                                                                                                                                                             |

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## GENE INFORMATION

|                 |                                                                                                                                                                                                                   |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene Name       | Tgfbr1 transforming growth factor, beta receptor I [ Mus musculus ]                                                                                                                                               |
| Official Symbol | Tgfbr1                                                                                                                                                                                                            |
| Synonyms        | TGFBR1; transforming growth factor, beta receptor I; TGF-beta receptor type-1; ESK2; TGFR-1; TGF-beta receptor type I; transforming growth factor-beta receptor type I; ALK5; Alk-5; TbetaRI; AU017191; TbetaR-I; |
| Gene ID         | 21812                                                                                                                                                                                                             |
| mRNA Refseq     | NM_009370                                                                                                                                                                                                         |
| Protein Refseq  | NP_033396                                                                                                                                                                                                         |
| MIM             |                                                                                                                                                                                                                   |

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