

Active Recombinant Mouse Tgfbr1 Protein, Fc-tagged

Cat. No. Tgfbr1-1777M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse TGF-beta RI (Ala21-Glu121) & (Thr22-Glu121) with a Human IgG1 (Pro100-Lys330) Fc tag at C-terminus was expressed in Spodoptera frugiperda, Sf 21 (baculovirus).
Species	Mouse
Source	Insect Cells
Description	This gene encodes a member of the transforming growth factor beta (TGF-beta) receptor family of proteins. These proteins comprise one component of the TGF-beta signaling pathway, which transduces extracellular signals into gene expression changes to regulate a wide range of cellular responses, including proliferation, migration, differentiation and apoptosis. Homozygous knockout mice for this gene exhibit impaired angiogenesis and embryonic lethality. Alternative splicing results in multiple transcript variants.
Form	Disulfide-linked homodimer
Bio-activity	Measured by its binding ability in a functional ELISA. When Recombinant Rat Endoglin/CD105 Fc Chimera or Recombinant Mouse Endoglin/CD105 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.
Molecular Mass	37.5 kDa (monomer)

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N-terminal Sequence Analysis	Ala21 & Thr22
Endotoxin	<0.1 EU/μg of the protein by the LAL method.
Purity	>90% by SDS-PAGE under reducing conditions and visualized by silver stain.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution in PBS.
Reconstitution	Reconstitute at 500 μg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature.

GENE INFORMATION

Gene Name	Tgfb1 transforming growth factor, beta receptor I [Mus musculus (house mouse)]
Official Symbol	Tgfb1
Synonyms	Tgfb1; transforming growth factor, beta receptor I; AL; Alk; ALK5; ESK2; Tbet; Alk-5; Tbeta; TGFR-1; TbetaRI; AU017191; TbetaR-I; TGF-beta receptor type-1; TGF-beta receptor type I; transforming growth factor-beta receptor type I; EC 2.7.11.30
Gene ID	21812
mRNA Refseq	NM_009370

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Protein Refseq	NP_033396
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UniProt ID	Q64729
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