

# Recombinant Mouse Tgfbr1 Protein (Ala21-Glu121 & Thr22-Glu121), C-Fc-tagged

## Product Information

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<b>Cat</b>	IMP-9845
<b>Official Symbol</b>	Tgfbr1
<b>Product Overview</b>	Recombinant Mouse TGF-beta RI/ALK-5 protein, (Ala21-Glu121) & (Thr22-Glu121), with a human IgG1 (Pro100-Lys330) Fc tag at C-terminus was expressed in Spodoptera frugiperda, Sf 21 (baculovirus) cells.
<b>Description</b>	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.
<b>Expression System</b>	Sf 21 cells
<b>Species</b>	Mouse
<b>Tag</b>	C-Fc
<b>Predicted N Terminal</b>	Ala21 & Thr22
<b>Form</b>	Lyophilized from a 0.2 µm filtered solution in PBS.
<b>Molecular Mass</b>	Predicted Molecular Mass: 37.5 kDa (monomer) SDS-PAGE: 40-50 kDa, reducing conditions
<b>Protein length</b>	Ala21-Glu121 & Thr22-Glu121
<b>Bio-activity</b>	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.
<b>Endotoxin</b>	
<b>Purity</b>	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain.
<b>Notes</b>	Disulfide-linked homodimer
<b>Storage</b>	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.*

**Reconstitution**

*Reconstitute at 500 µg/mL in sterile PBS.*