

# Recombinant Mouse TGFBR2 Protein (Fc Tag)

Catalog Number:PKSM041170



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

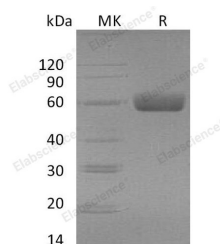
## Description

<b>Synonyms</b>	TGF-beta receptor type-2;TGFR-2;TGF-beta type II receptor;Transforming growth factor-beta receptor type II;TGF-beta receptor type II;TbetaR-II;Tgfr2
<b>Species</b>	Mouse
<b>Expression Host</b>	HEK293 Cells
<b>Sequence</b>	Ile24-Asp159
<b>Accession</b>	Q62312-2
<b>Calculated Molecular Weight</b>	42.3 kDa
<b>Observed molecular weight</b>	55-65 kDa
<b>Tag</b>	C-Fc
<b>Bioactivity</b>	Measured by its ability to inhibit TGF-beta 1 activity on TF-1 human erythroleukemic cells.The ED <sub>50</sub> for this effect is 69.07 ng/ml in the presence of 1ng/ml of recombinant human TGF-beta 1.

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



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## Background

Transforming growth factor- $\beta$  (TGF- $\beta$ ) is an essential regulator in the processes of development, cell proliferation, and extracellular matrix deposition. TGF- $\beta$  regulates cellular processes by binding to three high-affinity cell surface receptors: TGF- $\beta$  receptor type I (TGF- $\beta$ -RI), TGF- $\beta$  receptor type II (TGF- $\beta$ -RII), and TGF- $\beta$  receptor type III (TGF- $\beta$ -RIII). TGF- $\beta$  RII is consists of a C-terminal protein kinase domain and an N-terminal ectodomain and belongs to transforming

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growth factor-beta (TGF- $\beta$ ) receptor subfamily. TGF- $\beta$  RII has a protein kinase domain which can form a heterodimeric complex with another receptor protein and bind TGF-beta. This receptor/ligand complex phosphorylates protein will enter the nucleus and regulate the transcription of a subset of genes related to cell proliferation.

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