

## Recombinant Human Mouse TGFB $\beta$ 2

Catalog No: CM04

<b>Description</b>	Recombinant Mouse Transforming Growth Factor-beta Receptor Type II is produced by our Mammalian expression system and the target gene encoding Ile24-Asp159 is expressed with a Fc tag at the C-terminus.
<b>Expression System</b>	Human cells
<b>Alternative name</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>Accession No.</b>	Q62312-2

<b>Quality Control</b>	Purity: greater than 95% as determined by reducing SDS-PAGE. Endotoxin: less than 0.1 ng/ $\mu$ g (1 EU/ $\mu$ g) as determined by LAL test.
<b>Formulation</b>	Lyophilized from a 0.2 $\mu$ m filtered solution of PBS, pH7.4.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
<b>Storage</b>	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
<b>Background</b>	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- $\beta$ $\beta$ 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 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.

### SDS-PAGE

