

## Product datasheet for **TP727399**

### Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Mouse Transforming Growth Factor- $\beta$ Receptor Type II/TGFB2 (C-Fc)
Species:	Mouse
Expression cDNA Clone or AA Sequence:	Ile24-Asp159
Tag:	C-Fc
Buffer:	Lyophilized from a 0.2 um filtered solution of PBS, pH 7.4.
Note:	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.
Storage:	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.
Stability:	12 months from date of despatch
Synonyms:	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; Tgfbr2
Summary:	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 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.



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