

## Active Recombinant Mouse Tgfbr2 Protein (Ile24-Asp184), mFc-tagged

Cat. No. Tgfbr2-01M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse TGF-beta RII (Ile24-Asp184) Protein with Human IgG1 (Pro100-Lys330) Fc tag at C-terminus was expressed in Mouse myeloma cell line.
<b>Species</b>	Mouse
<b>Source</b>	NS0
<b>ProteinLength</b>	Ile24-Asp184
<b>Description</b>	Enables SMAD binding activity; transforming growth factor beta binding activity; and transforming growth factor beta-activated receptor activity. Involved in several processes, including animal organ development; circulatory system development; and positive regulation of epithelial to mesenchymal transition involved in endocardial cushion formation. Acts upstream of or within several processes, including animal organ development; cell surface receptor signaling pathway; and positive regulation of tolerance induction. Located in external side of plasma membrane. Is expressed in several structures, including alimentary system; central nervous system; early conceptus; embryo mesenchyme; and genitourinary system. Used to study DiGeorge syndrome; Loeys-Dietz syndrome; cleft soft palate; and prostate cancer. Human ortholog(s) of this gene implicated in Loeys-Dietz syndrome 2; Marfan syndrome; gastrointestinal system cancer (multiple); hereditary nonpolyposis colorectal cancer type 6; and pancreatic cancer. Orthologous to human TGFBR2 (transforming growth factor beta receptor 2).

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Form</b>	Disulfide-linked homodimer
<b>Bio-activity</b>	Measured by its ability to inhibit TGF-beta 1 activity on HT-2 mouse T cells. The ED50 for this effect is 10-70 ng/mL.
<b>Molecular Mass</b>	Predicted Molecular Mass: 44.6 kDa (monomer) SDS-PAGE: 60-65 kDa, reducing conditions
<b>N-terminal Sequence Analysis</b>	Ile24
<b>Endotoxin</b>	<0.10 EU/μg of the protein by the LAL method.
<b>Purity</b>	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
<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.
<b>Storage Buffer</b>	Lyophilized from a 0.2 μm filtered solution in PBS.
<b>Reconstitution</b>	Reconstitute at 100 μg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	Tgfr2 transforming growth factor, beta receptor II [ Mus musculus (house mouse) ]
<b>Official Symbol</b>	Tgfr2

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<b>Synonyms</b>	Tgfr2; transforming growth factor, beta receptor II; DNIIR; RIIDN; TBR-II; TbetaRII; TbetaR-II; 1110020H15Rik; TGF-beta receptor type-2; TGF-beta receptor II; TGF-beta receptor type II; TGF-beta type II receptor; TGFR-2; transforming growth factor-beta receptor type II; EC 2.7.11.30
<b>Gene ID</b>	21813
<b>mRNA Refseq</b>	NM_009371
<b>Protein Refseq</b>	NP_033397
<b>UniProt ID</b>	Q62312

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