Recombinant Mouse Transforming Growth Factor, Beta Receptor II

Cat. No. Tgfbr2-1778M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Mouse
Source	Mammalian Cells
Description	Transforming growth factor beta type II (TGFbeta RII) is a key inhibitor of epithelial cell growth and tumor suppressor gene. It also regulate cell differentiation and has critical regulatory roles in the process of tissue repair and remodeling. TGF beta RII plays an important role as a tumor suppressor in non-small cell lung cancer (NSCLC) carcinogenesis.
Molecular Weight	The predicted molecular weight of Recombinant Mouse TGF-β RII is Mr 44.6 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 60-65 kDa.
State Of Matter	Lyophilized.
Purity	>95% by SDS Page and analyzed by silver stain.
Endotoxin	<1.0 EU/μg as determined by the LAL method.
Storage And Stability	This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C

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	for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles.

GENE INFORMATION

Gene Name	Tgfbr2 transforming growth factor, beta receptor II [Mus musculus]
Synonyms	Tgfbr2; transforming growth factor, beta receptor II; DNIIR; RIIDN; TBR-II; AU042018; TbetaRII; TbetaR-II; 1110020H15Rik
Gene ID	21813
mRNA Refseq	NM_009371
Protein Refseq	NP_033397
UniProt ID	Q62312
Chromosome Location	9 F3; 9 69.0 cM
Pathway	Adherens junction; Chronic myeloid leukemia; Colorectal cancer; Cytokine-cytokine receptor interaction; Endocytosis; MAPK signaling pathway; Pancreatic cancer; TGF-beta signaling pathway
Function	ATP binding; SMAD binding; kinase activity; manganese ion binding; nucleotide binding; metal ion binding; protein serine/threonine kinase activity; protein kinase activity; receptor signaling protein serine/threonine kinase activity; transferase activity; transforming growth factor beta receptor activity, type II

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PDB rendering based on 1ktz.



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