

# Recombinant Human TGFBR2 Protein, 23-166aa, C-hlgG-His tagged

Cat. No. TGFBR2-05H    Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant human TGFBR2 (23-166aa), fused to hlgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
<b>Species</b>	Human
<b>Source</b>	Insect cells
<b>ProteinLength</b>	23-166aa
<b>Description</b>	TGFBR2, as known as TGF-beta receptor type-2 isoform B, is a member of the serine and threonine protein kinase family and the TGF beta receptor subfamily. The type-2 receptor binds TGF-beta1 and TGF-beta3 with high affinity, and TGF-beta2 with a much lower affinity. It forms a heterodimeric complex with type1 receptor and is essential for signal transduction. Also, this protein may play an important role in TGF-beta2 binding and signaling in cells lacking TGFBR3.
<b>Form</b>	Liquid
<b>Bio-activity</b>	Measured by its binding ability in a functional ELISA with Human TGF-beta3. The ED50 range $\leq 1 \mu\text{g/mL}$ .
<b>Molecular Mass</b>	43.3 kDa (383aa)

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<b>AA Sequence</b>	TIPPHVQKSVNNDMIVTDNNGAVKFPQLCKFCDVRFSTCDNQKSCMSNCSITSICEK PQEVCAVWRKNDENITLETVCHDPKLPYHDFILEDAASPKCIMKEKKKPGETFFMC SCSSDECNDNIIFSEEYNTSNPDLVVIFQ
<b>Endotoxin</b>	< 1 EU/μg of protein (determined by LAL method)
<b>Purity</b>	> 95% by SDS-PAGE
<b>Applications</b>	SDS-PAGE, Bioactivity
<b>Notes</b>	For research use only. This product is not intended or approved for human, diagnostics or veterinary use.
<b>Storage</b>	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
<b>Concentration</b>	0.5 mg/mL (determined by absorbance at 280nm)
<b>Storage Buffer</b>	Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol
<b>References</b>	1. Wrana JL., et al. (1992) Cell 71:1003-1014. 2. Halper B., et al. (2015) Exerc. Immunol. Rev. 21:154-163.

## GENE INFORMATION

<b>Gene Name</b>	TGFBR2 transforming growth factor, beta receptor II (70/80kDa) [ Homo sapiens (human) ]
<b>Official Symbol</b>	TGFBR2
<b>Synonyms</b>	TGFBR2; transforming growth factor, beta receptor II (70/80kDa); MFS2, transforming

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growth factor, beta receptor II (70 80kD); TGF-beta receptor type-2; tbetaR-II; TGF-beta receptor type II; TGF-beta type II receptor; TGF-beta receptor type IIB; transforming growth factor-beta receptor type II; transforming growth factor beta receptor type IIC; transforming growth factor, beta receptor II (70/80kDa) isoform 1; transforming growth factor, beta receptor II (70/80kDa) isoform 2; AAT3; FAA3; MFS2; RIIC; LDS1B; LDS2B; TAAD2; TGFR-2; TGFbeta-RII;

**Gene ID** [7048](#)

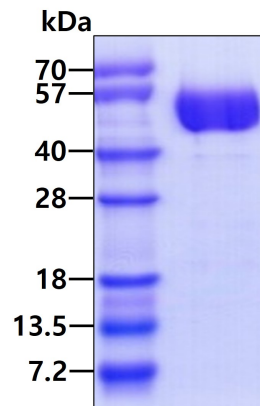
**mRNA Refseq** [NM\\_003242](#)

**Protein Refseq** [NP\\_003233](#)

**MIM** [190182](#)

**UniProt ID** [P37173](#)

**SDS-PAGE**



3 µg by SDS-PAGE under reducing condition and visualized by coomassie blue

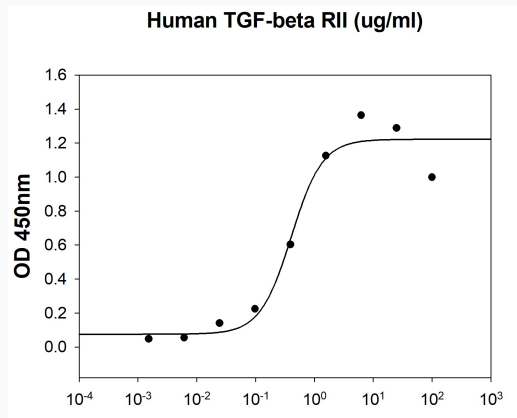
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Biological Activity



Human TGF-beta3 is coated at 2 µg/mL (100 µL/well) can bind Human TGF-beta RII. The ED50 range ≤ 1 µg/mL.

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