

Recombinant Human TGFB2 Protein, 23-166aa, C-hlgG-His tagged

Cat. No. TGFB2-05H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human TGFB2 (23-166aa), fused to hlgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Human
Source	Insect cells
ProteinLength	23-166aa
Description	TGFB2, 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 TGFB3.
Form	Liquid
Bio-activity	Measured by its binding ability in a functional ELISA with Human TGF-beta3. The ED50 range $\leq 1 \mu\text{g/mL}$.
Molecular Mass	43.3 kDa (383aa)

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AA Sequence	TIPPHVQKSVNNDMIVTDNNGAVKFPQLCKFCDVRFSTCDNQKSCMSNCSITSICEK PQEVCAVAVWRKNDENITLETVCHDPKLPYHDFILEDAAAPKCIMKEKKKPGETFFMC SCSSDECNDNIIFSEEYNTSNPDLLLVIQ
Endotoxin	< 1 EU/μg of protein (determined by LAL method)
Purity	> 95% by SDS-PAGE
Applications	SDS-PAGE, Bioactivity
Notes	For research use only. This product is not intended or approved for human, diagnostics or veterinary use.
Storage	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.
Concentration	0.5 mg/mL (determined by absorbance at 280nm)
Storage Buffer	Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol
References	1. Wrana JL., et al. (1992) Cell 71:1003-1014. 2. Halper B., et al. (2015) Exerc. Immunol. Rev. 21:154-163.

GENE INFORMATION

Gene Name	TGFB2 transforming growth factor, beta receptor II (70/80kDa) [Homo sapiens (human)]
Official Symbol	TGFB2
Synonyms	TGFB2; 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

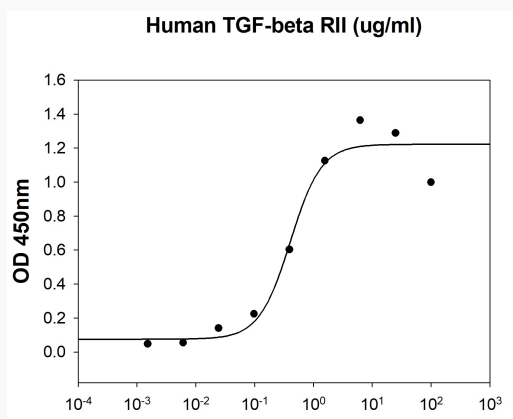
mRNA Refseq NM_003242

Protein Refseq NP_003233

MIM 190182

UniProt ID P37173

Biological Activity



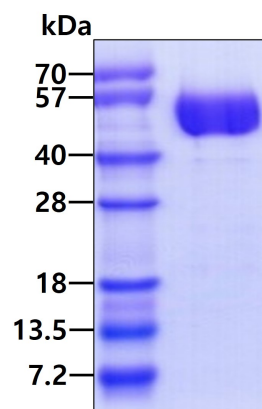
Human TGF-beta3 is coated at 2 µg/mL (100 µL/well) can bind Human TGF-beta RII. The ED50 range ≤ 1 µg/mL.

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SDS-PAGE



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

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