

# Active Recombinant Human TGFBR3, His-tagged, Biotinylated

Cat. No. TGFBR3-698H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	The recombinant human TGFBR3/BGCAN ECD protein is expressed as a 772 amino acid protein consisting of Gly21 - Gly781 region of TGFBR3 (UniProt accession #Q03167) and a C-terminal His tag.
<b>Species</b>	Human
<b>Source</b>	Human Cells
<b>ProteinLength</b>	21-781 a.a.
<b>Form</b>	Supplied at 0.5 mg/ml in sterile PBS pH7.4 (carrier & preservative free). The purified recombinant protein was labeled with Biotin (3-5 Biotin per molecule).
<b>Bio-activity</b>	Immobilized TGFBR3 protein binds human TGFβ2 in a functional ELISA. Blocks TGFβ2-mediated signaling activity.
<b>Molecular Mass</b>	Calculated molecular mass (kDa): 85.7; Estimated by SDS-PAGE under reducing condition (kDa): 95-100
<b>AA Sequence</b>	GPEPGALCELSPVSASHPVQALMESFTVLSGCASRGTTGLPQEVHVLNLRTAGQGP GQLQREVTLHLNPISSVH IHHKSVVFLLNPHPLVWHLKTERLATGVSRLFVSEGS VVQFSSANFSLTAETEERNFPHGNEHLLNWARKEY GAVTSFTELKIARNIYIKVGED QVFPKCNIGNFLSLNYLAEYLQPKAAEGCVMSSQPQNEEVHIIELITPNS NPYSAF QVDITIDIRPSQEDLEVVKNLILILKCKKSVNWWIKSFDVKGSLKIIAPNSIGFGKESERS MTMTKSI RDDIPSTQGNLVKWDNGYSPITSYTMAPVANRFHLRLENNAAEEMGDE

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EVHTIPPELRILLDPGALPALQNP PIRGGEGQNGGLPFPFPDISRRVWNEEGEDGLP  
 RPKDPVIPSIQLFPGGLREPEEVQGSVDIALSVKCDNEKMIV AVEKDSFQASGYSGMD  
 VTLLDPTCKAKMNGTHFVLESPLNGCGTRPRWSALDGVVYYNSIVIQVPALGDSSG  
 WP DGYEDLESNGFPGDMDEGDASLFTRPEIVVFNCSLQQVRNPSSFQEQPHG  
 NITFNMELYNTDLFLVPSQGVF SVPENGHVYVEVSVTKAEQELGFAIQTCFISPSYN  
 PDRMSHYTIIENICPKDESVKFYSPKRVHFPIQADMD KKRFSFVFKPVFNTSLLFLQ  
 CELTLCTKMEKHPQKLPKCVPPDEACTSLDASIIWAMMQNKKTFTKPLAVIHHE AES  
 KEKGPSMKEPNPISPPIFHGSTGHHHHHHHHH

**Endotoxin** <0.1 eu per 1 µg of purified recombinant protein determined by the lal>

**Purity** >75% judged by SDS-PAGE under reducing condition

**Storage** The product is shipped at 4°C. Upon receipt, centrifuge the product briefly before opening the vial. It is recommended to store small aliquots at the temperature below -20°C for long-term storage and the product is stable for 3 months. The undiluted protein can be stored at 4°C for no more than 2 weeks. Avoid repeated freeze-thaw cycles.

**Conjugation** Biotin

## GENE INFORMATION

**Gene Name** [TGFB3 transforming growth factor, beta receptor III \[ Homo sapiens \]](#)

**Official Symbol** [TGFB3](#)

**Synonyms** TGFB3; transforming growth factor, beta receptor III; transforming growth factor, beta receptor III (betaglycan, 300kDa); transforming growth factor beta receptor type 3; betaglycan; betaglycan proteoglycan; BGCAN; TGFR-3; TGF-beta receptor type 3;

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	TGF-beta receptor type III;
<b>Gene ID</b>	<a href="#">7049</a>
<b>mRNA Refseq</b>	<a href="#">NM_001195683</a>
<b>Protein Refseq</b>	<a href="#">NP_001182612</a>
<b>MIM</b>	<a href="#">600742</a>
<b>UniProt ID</b>	<a href="#">Q03167</a>
<b>Chromosome Location</b>	1p33-p32
<b>Pathway</b>	TGF Beta Signaling Pathway, organism-specific biosystem; TGF-beta Receptor Signaling Pathway, organism-specific biosystem; TGF-beta receptor signaling, organism-specific biosystem;
<b>Function</b>	PDZ domain binding; SMAD binding; coreceptor activity; glycosaminoglycan binding; glycosaminoglycan binding; heparin binding; protein binding; contributes_to protein binding; receptor activity; transforming growth factor beta binding; transforming growth factor beta receptor activity, type III; transforming growth factor beta receptor binding; transforming growth factor beta-activated receptor activity; type II transforming growth factor beta receptor binding;

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