

## Active Recombinant Human TGFBR3, His-tagged

Cat. No. TGFBR3-699H 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).
<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 IHHKSVVFLNNSPHPLVWHLKTERLATGVSRLFLVSEGS VVQFSSANFSLTAETEERNFPHGNEHLLNWARKEY GAVTSFTELKIARNIYIKVGED QVFPPKCNIGKNFLSLNYLAEYLQPKAAEGCVMSSQPQNEEVHIIELITPNS NPYSAF QVDITIDIRPSQEDLEVVKNLILILKCKKSVNWWIKSFDVKGSLKIIAPNSIGFGKESERS MTMTKSI RDDIPSTQGNLVKWALDNGYSPITSYTMAPVANRFHLRLENNAEEMGDE EVHTIPPELRILLDPGALPALQNP PIRGGEGQNGGLPFPFPDISRRVWNEEGEDGLP

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RPKDPVIPSIQLFPGLREPEEVQGSVDIALSVKCDNEKMIV AVEKDSFQASGYSGMD  
 VTLLDPTCKAKMNGTHFVLESPLNGCGTRPRWSALDGVVYYNSIVIQVPALGDSSG  
 WP DGYEDLES GDNGFPGDMDEGDASLFTRPEIVVFNC SLQQVRNPSSFQE QPHG  
 NITFNMELYNTDLFLVPSQGVF SVPENGHVYVEVSVTKAEQELGFAIQTCFISPYSN  
 PDRMSHYTIIENICPKDES VKFYSPKRVHFPIQADMD KKRFSFVFKPVFNTSLLFLQ  
 CELTLCTKMEKHPQKLPKCVPPDEACTSLDASIIWAMMQNKKFTTKPLAVIHHE AES  
 KEKGPSMKEPNPISPPIFHGSTGHHHHHHHH

**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.

## GENE INFORMATION

**Gene Name**

TGFBR3 transforming growth factor, beta receptor III [ Homo sapiens ]

**Official Symbol**

TGFBR3

**Synonyms**

TGFBR3; 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; TGF-beta receptor type III;

**Gene ID**

7049

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<b>mRNA Refseq</b>	NM_001195683
<b>Protein Refseq</b>	NP_001182612
<b>MIM</b>	600742
<b>UniProt ID</b>	Q03167
<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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