

Active Recombinant Human TGFR3, His-tagged, Biotinylated

Cat. No. TGFR3-698H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The recombinant human TGFR3/BGCAN ECD protein is expressed as a 772 amino acid protein consisting of Gly21 - Gly781 region of TGFR3 (UniProt accession #Q03167) and a C-terminal His tag.
Source	Human cells
Species	Human
Tag	His
Form	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).
Bio-activity	Immobilized TGFR3 protein binds human TGFβ2 in a functional ELISA. Blocks TGFβ2-mediated signaling activity.
Molecular Mass	Calculated molecular mass (kDa): 85.7; Estimated by SDS-PAGE under reducing condition (kDa): 95-100
AA Sequence	GPEPGALCELSPVSSHVPVQALMES FTVLSGCASRGTTGLPQEVHVLNLR TAGQGPGQLQREVTLHLNPISSVH IHHKSVVFLNLSPLVWHLKTERL ATGVSRLFLVSEGSVVQFSSANFSL TAETEERNFPHGNEHLLNWARKEY GAVTSFTELKIARNIYIKVGEDQVF PPKCNIGKNFLSLNYLAEYLQPKAA EGCVMSSQPQNEEVHIELITPNS NPYSAFQVDITIDIRPSQEDLEVVK

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NLILILKCKKSVNWVIKSFVDKGS L KIIAPNSIGFGKESERSMTMTKSI
RDDIPSTQGNLVKWALDNGYSPITS YTMAPVANRFHLRLNNAEEMGDEE
VHTIPPELRILLDPGALPALQNP PIRGGEGQNGGLPFPFPDISRRVWN
EEGEDGLPRPKDPVIPSIQLFPGLR EPEEVQGSVDIALSVKCDNEKMIV
AVEKDSFQASGYSGMDVTLDDPTCK AKMNGTHFVLESPLNGCGTRPRWSA
LDGVVYYNSIVIQVPALGDSSGWP DGYEDLESGDNGFPGDMDEGDASLF
TRPEIVVFNC SLQQVRNPSSFQEQP HGNITFNMELYNTDLFLVPSQGVF
SVPENGHVYVEVSVTKAEQELGFAI QTCFISPYSNPDRMSHYTIIENICP
KDESVKFYSPKRVHFPQPQADMD KKRFSFVFKPVFNTSLLFLQCELT
CTKMEKHPQKLPKCVPPDEACTSLD ASIIWAMMQNKKTFTKPLAVIHHE
AESKEKGPSMKEPNPISPPIFHGST GHHHHHHHH
  
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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 [TGFR3 transforming growth factor, beta receptor III \[Homo sapiens \]](#)

Official Symbol [TGFR3](#)

Synonyms TGFR3; transforming growth factor, beta receptor III; transforming growth factor, beta receptor III (betaglycan, 300kDa); transforming growth factor beta receptor type 3;

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	betaglycan; betaglycan proteoglycan; BGCAN; TGFR-3; TGF-beta receptor type 3; TGF-beta receptor type III;
Gene ID	7049
mRNA Refseq	NM_001195683
Protein Refseq	NP_001182612
MIM	600742
UniProt ID	Q03167
Chromosome Location	1p33-p32
Pathway	TGF Beta Signaling Pathway, organism-specific biosystem; TGF-beta Receptor Signaling Pathway, organism-specific biosystem; TGF-beta receptor signaling, organism-specific biosystem;
Function	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;