Active Recombinant Human TGFBR3, His-tagged, Biotinylated

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	Human Cells
ProteinLength	21-781 a.a.
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 TGFBR3 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	GPEPGALCELSPVSASHPVQALMESFTVLSGCASRGTTGLPQEVHVLNLRTAGQGP GQLQREVTLHLNPISSVH IHHKSVVFLLNSPHPLVWHLKTERLATGVSRLFLVSEGS VVQFSSANFSLTAETEERNFPHGNEHLLNWARKEY GAVTSFTELKIARNIYIKVGED QVFPPKCNIGKNFLSLNYLAEYLQPKAAEGCVMSSQPQNEEVHIIELITPNS NPYSAF QVDITIDIRPSQEDLEVVKNLILILKCKKSVNWVIKSFDVKGSLKIIAPNSIGFGKESERS MTMTKSI RDDIPSTQGNLVKWALDNGYSPITSYTMAPVANRFHLRLENNAEEMGDE

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	EVHTIPPELRILLDPGALPALQNP PIRGGEGQNGGLPFPFPDISRRVWNEEGEDGLP RPKDPVIPSIQLFPGLREPEEVQGSVDIALSVKCDNEKMIV AVEKDSFQASGYSGMD VTLLDPTCKAKMNGTHFVLESPLNGCGTRPRWSALDGVVYYNSIVIQVPALGDSSG WP DGYEDLESGDNGFPGDMDEGDASLFTRPEIVVFNCSLQQVRNPSSFQEQPHG NITFNMELYNTDLFLVPSQGVF SVPENGHVYVEVSVTKAEQELGFAIQTCFISPYSN PDRMSHYTIIENICPKDESVKFYSPKRVHFPIPQADMD KKRFSFVFKPVFNTSLLFLQ CELTLCTKMEKHPQKLPKCVPPDEACTSLDASIIWAMMQNKKTFTKPLAVIHHE 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.
Conjugation	Biotin

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;

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	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;

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