

Recombinant Human TGFB1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. TGFB1-513H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	TGFB1 MS Standard C13 and N15-labeled recombinant protein (NP_000349) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes an RGD-containing protein that binds to type I, II and IV collagens. The RGD motif is found in many extracellular matrix proteins modulating cell adhesion and serves as a ligand recognition sequence for several integrins. This protein plays a role in cell-collagen interactions and may be involved in endochondrial bone formation in cartilage. The protein is induced by transforming growth factor-beta and acts to inhibit cell adhesion. Mutations in this gene are associated with multiple types of corneal dystrophy.
Molecular Mass	74.7 kDa
AA Sequence	MALFVRLALALALALGPAATLAGPAKSPYQLVLQHSRLRGRQHGPNVCAVQKVIGT NRKYFTNCKQWYQRKICGKSTVISYECCPGYEKVPGEKGCPAALPLSNLYETLGVV GSTTTQLYTDRTEKLRPEMEGPGSFTIFAPSNEAWASLPAEVLDSLVSNNIELLNAL RYHMGVRRVLTDELKHGMTLTSMYQNSNIQIHYPNGIVTVNCARLLKADHHATNG VVHLIDKVISTITNNIQQIIEIDTFETLRAAVAASGLNTMLEGNGQYTLAPTNEAFEKI PSETLNRILGDPEALRDLLNNHILKSAMCAEAIVAGLSVETLEGTTLEVGCSDMLTIN

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GKAIISNKDILATNGVIHYIDELLIPDSAKTLFELAAESDVSTAIDLFRQAGLGNHLSGS
 ERLTLLAPLNSVFKDGTTPIDAHRNLLRNHIIKDQLASKYLYHGQTLETLGKKLRVF
 VYRNSLCIENSCIAAHDKRGRYGTFTMDRVLTPPMGTVMVDLKGDNRF SMLVAAIQ
 SAGLTETLNREGVYTVFAPTNEAFRALPPRERSRLLGDAKELANILKYHIGDEILVSG
 GIGALVRLKSLQGDKLEVSLKNNVSVNKEPVAEPDIMATNGVVHVITNVLQPPANR
 PQERGDELADSALEIFKQASAFSRASQRSVRLAPVYQKLLERMKHTTRTRPLEQKLIS
 EEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name TGFB1 transforming growth factor beta induced [Homo sapiens (human)]

Official Symbol TGFB1

Synonyms TGFB1; transforming growth factor, beta-induced, 68kDa; CSD1, CSD2, CSD3, LCD1, transforming growth factor, beta induced, 68kD; transforming growth factor-beta-induced protein ig-h3; BIGH3; CDB1; CDGG1; RGD-CAP; beta ig-h3; kerato-epithelin; RGD-containing collagen-associated protein; CSD; CDG2; CSD1; CSD2; CSD3; EBMD; LCD1;

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Gene ID	7045
mRNA Refseq	NM_000358
Protein Refseq	NP_000349
MIM	601692
UniProt ID	Q15582
SDS-PAGE	