

Active Recombinant Human Transforming Growth Factor, Beta 2

Cat. No. TGFB2-632H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human TGFB2 was expressed in A293 cells and purified by using conventional chromatography techniques.
Species	Human
Source	Human
Description	The three mammalian isoforms of TGF beta, TGF beta1, beta2, beta3, signal through the same receptor and elicit similar biological responses. They are multifunctional cytokines that regulate cell proliferation, growth, differentiation and motility as well as synthesis and deposition of the extracellular matrix. They are involved in various physiological processes including embryogenesis, tissue remodeling and wound healing. They are secreted predominantly as latent complexes which are stored at the cell surface and in the extracellular matrix. The release of biologically active TGF beta isoform from a latent complex involves proteolytic processing of the complex and /or induction of conformational changes by proteins such as thrombospondin-1.
Form	Supplied as a lyophilized powder
Purity	>98% pure by SDS PAGE and HPLC
Sequence	Region of TGF beta 2 protein corresponding to amino acids ALDAAYCFRN VQDNCCLRPL YIDFKRDLGW KWIHEPKGYN ANFCAGACPY LWSSDTQHRS VLSLYNTINP EASASPCCVS QDLEPLTILY YIGKTPKIEQ LSNMIVKSCK CS.

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Applications	Numerous applications are possible with this product and should be tested by the end user under their own laboratory conditions
Endotoxin Levels	Endotoxin level is less than 0.1 ng per ug (1 EU/ug).
Bioactivity	Determined by its ability to inhibit the mouse IL-4-dependent proliferation of mouse HT-2 cells. The ED50 was found to be 0.2 ng/ml, corresponding to a specific activity of 5 x 10 ⁶ units/mg.
Storage	Store at 4 deg C until reconstitution. Following reconstitution aliquot and freeze at -20 deg C for long term storage. Avoid repeated freeze/thaw cycles

GENE INFORMATION

Gene Name	TGFB2 transforming growth factor, beta 2 [Homo sapiens]
Official Symbol	TGFB2
Synonyms	MGC116892; TGF-beta2; TGFB2; Transforming growth factor beta-2; TGF-beta-2; Glioblastoma-derived T-cell suppressor factor; G-TSF; BSC-1 cell growth inhibitor; Polyergin; Cetermin; transforming growth factor, beta 2
Gene ID	7042
mRNA Refseq	NM_001135599
Protein Refseq	NP_001129071
MIM	190220
UniProt ID	P61812

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Chromosome Location	1q41
Pathway	ATF-2 transcription factor network; Amoebiasis; Cell cycle; Chagas disease (American trypanosomiasis); Chronic myeloid leukemia; Colorectal cancer; Cytokine-cytokine receptor interaction; Dilated cardiomyopathy; Endochondral Ossification; Endocytosis; Formation of Platelet plug; HTLV-I infection; Hemostasis; Hypertrophic cardiomyopathy (HCM); Leishmaniasis; MAPK signaling pathway; Malaria; Osteoclast differentiation; Pancreatic cancer; Platelet Activation; Platelet degranulation; Regulation of retinoblastoma protein
Function	beta-amyloid binding; cytokine activity; growth factor activity; protein binding; contributes_to protein binding; protein heterodimerization activity; protein homodimerization activity; receptor binding; receptor signaling protein serine/threonine kinase activity; transforming growth factor beta receptor binding; type II transforming growth factor beta receptor binding
PDBrendering based on 1tfg.	