

Recombinant Human Transforming Growth Factor, Beta 2, His-tagged

Cat. No. TGFB2-633H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human TGFB2, fused to His tag at N-terminus, was expressed in <i>Nicotiana benthamiana</i> 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.
Concentration	50 ng/ul
Form	Lyophilized from 50mM Tris HCl at pH 7.4.
Method of Purification	Sequential chromatography (FPLC)

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Purity	>97 % by SDS - PAGE gel
Sequence	HHHHHHALDAAYCFRNVQDNCCLRPLYIDFKRDLGWKWIHEPKGYNANFCAGACP YLWSSDTQHRSRVLSLYNTINPEASASPCCVSQDLEPLTILYYIGKTPKIEQLSNMIVKS CKCS
Molecular Mass	13.5 kDa single chain containing 118 amino residues
Applications	Numerous applications are possible with this product and should be tested by the end user under their own laboratory conditions
Contaminants	Free from animal matter
Endotoxin Levels	<0.04 EU/ug protein (LAL method)
Storage	Aliquot and store at -20 deg C. 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

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Protein Refseq	NP_001129071
MIM	190220
UniProt ID	P61812
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