

Active Recombinant Human Transforming Growth Factor, Beta 2

Cat. No. TGFB2-577H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PDGF is a mitogenic peptide growth hormone carried in the alpha-granules of platelets. The synthesis of PDGF can be induced by Interleukin-1, Interleukin-6, TNF-alpha, TGF-beta and EGF. Recombinant Human PDGF-AB is a heterodimeric, non-glycosylated, polypeptide chain containing 234 amino acids consisting of 13.3kDa alpha-chain and 12.2 beta-chain having a total molecular mass of 25.5kDa.
Species	Human
Source	E.coli
Description	Transforming growth factor-beta 2 (TGF- μ 2) is a secreted protein known as a cytokine that performs many cellular functions and has a vital role during embryonic development. It is an extracellular glycosylated protein.
Form	Lyophilized from 10 mM Acetic Acid.
Purity	Purity Greater than 95% as determined by: Reducing and non-reducing SDS-PAGE.
Bio-activity	PDGF-AB is fully biologically active when compared to standard. The ED50, calculated by the dose-dependant proliferation of mouse 3T3 indicator cells is < 1.72 ng/ml.
Physical Appearance	Sterile Filtered white lyophilized (freeze-dried) powder.

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Solubility	Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/μl, which can be further diluted into other aqueous solutions.
Purity Greater than 95% as determined by	Reducing and non-reducing SDS-PAGE.
Protein Content determined by	UV spectroscopy at 280 nm. Quantitation on SDS-PAGE against a known standard.
Endotoxin Level	Endotoxin level as measured by LAL is <0.01ng/ug or <0.1EU/ug.
Amino acid sequence	MSIEEAVPAV CKTRTVIYEI PRSQVDPTSA NFLIWPPCVE VKRCTGCCNT SSVKCQPSRV HHRSVKVAKV EYVRKKPKLK EVQVRLEEHL ECACATTSLN PDYREEDTGR PRESGKKRKR KRLKPT beta chain MSLGSLTIAE PAMIAECKTR TEVFEISRRL IDRTNANFLV WPPCVEVQRC SGCCNNRNVQ CRPTQVQLRP VQVRKIGIVR KKPIFKKATV TLGDHLACKC ETVAAARPVT
Storage	Lyophilized product is very stable at -20 degrees. Reconstituted material should be aliquoted and frozen at -20. It is recommended to add a carrier protein (0.1% HSA or BSA) for long term storage.

GENE INFORMATION

Gene Name	TGFB2 transforming growth factor, beta 2 [Homo sapiens]
Official Symbol	TGFB2

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Synonyms	TGFB2; Transforming growth factor beta 2; MGC116892; TGF-beta2; Transforming growth factor beta-2; TGF-beta-2; Glioblastoma-derived T-cell suppressor factor; G-TSF; BSC-1 cell growth inhibitor; Polyergin; Cetermin
Gene ID	7042
mRNA Refseq	NM_001135599
Protein Refseq	NP_001129071
MIM	190220
UniProt ID	P61812
Chromosome Location	1q41
Pathway	Cell cycle; Chronic myeloid leukemia; Cytokine-cytokine receptor interaction; Dilated cardiomyopathy; Hypertrophic cardiomyopathy (HCM); MAPK signaling pathway; Pathways in cancer; Renal cell carcinoma; TGF-beta signaling pathway; Hemostasis
Function	beta-amyloid binding; cytokine activity; protein heterodimerization activity; growth factor activity; type II transforming growth factor beta receptor binding; receptor signaling protein serine/threonine kinase activity