

Active Recombinant Human Transforming Growth Factor, Beta 3

Cat. No. TGFB3-598H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	TGF-b 3 Human Recombinant produced in CHO is a disulfide-linked homodimeric, glycosylated, polypeptide chain containing 112 amino acids and having a molecular mass of 25kDa. The TGF-b 3 is purified by standard chromatographic techniques.
Species	Human
Source	CHO
Description	Transforming growth factor betas (TGFBetas) mediate many cell-cell interactions that occur during embryonic development. Three TGFBetas have been identified in mammals. TGFBeta1, TGFBeta2 and TGFBeta3 are each synthesized as precursor proteins that are very similar in that each is cleaved to yield a 112 amino acid polypeptide that remains associated with the latent portion of the molecule.
Form	The protein solution contains 20% Ethanol and 0.1% Acetic acid.
Purity	Greater than 97.0% as determined by SDS-PAGE.
Bio-activity	The biological activity was determined using cell toxicity assay via HT-2 cells. The ED50 was found to be < 0.05ng/ml, corresponding to a specific activity of 20,000,000IU/mg.
Physical Appearance	Sterile Filtered clear solution.

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Amino acid sequence	The sequence of the first five N-terminal amino acids was determined and was found to be Ala-Leu-Asp-Thr-Asn.
Storage	TGF-beta 3 although stable at 4°C. for 3 weeks, should be stored at -20°C to -70°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

GENE INFORMATION

Gene Name	TGFB3 transforming growth factor, beta 3 [Homo sapiens]
Official Symbol	TGFB3
Synonyms	Transforming Growth Factor-beta3; TGFB3; ARVD; FLJ16571; TGF-beta3; transforming growth factor, beta 3
Gene ID	7043
mRNA Refseq	NM_003239
Protein Refseq	NP_003230
MIM	190230
UniProt ID	P10600
Chromosome Location	4q24
Pathway	Cell cycle;Chronic myeloid leukemia; Colorectal cancer; Cytokine-cytokine receptor interaction; Hypertrophic cardiomyopathy (HCM); MAPK signaling pathway; Pancreatic cancer;Pathways in cancer; Renal cell carcinoma; TGF-beta signaling

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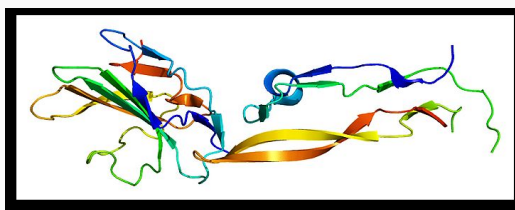
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pathway

Function

Growth factor activity; Identical protein binding; Protein heterodimerization activity; Transforming growth factor beta binding; Type I transforming growth factor beta receptor binding; Type II transforming growth factor beta receptor binding

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on 1qqk.**



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