

Active Recombinant Human Transforming Growth Factor, Beta 3

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

SPECIFICATION

Product Overview	TGF- β 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- β 3 is purified by standard chromatographic techniques.
Species	Human
Source	CHO
Description	Transforming growth factor betas (TGF β s) mediate many cell-cell interactions that occur during embryonic development. Three TGF β s have been identified in mammals. TGF β 1, TGF β 2 and TGF β 3 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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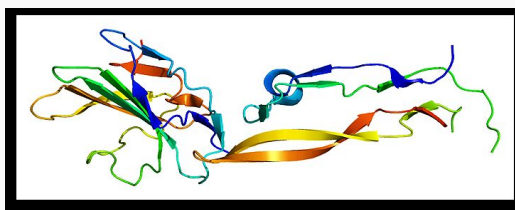
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pathway

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

**PDB renderingbased
on 1qqk.**



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