

Active Recombinant Human Transforming Growth Factor, Beta 3, Dimeric Form

Cat. No. TGFB3-468H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human TGFβ-3 is a 25.4 kDa protein composed of two identical 112 amino acid peptide chains linked by a single disulfide bond. It was expressed in <i>Nicotiana benthamiana</i> . Recombinant human TGFβ-3 is purified by sequential chromatography (FPLC). This product contains no animal –derived components or impurities.
Species	Human
Source	Nicotiana Benthamiana
Description	Transforming growth factor –β is a family of five related cytokines that have been shown on a wide variety of normal and neoplastic cells, indicating the importance of these homodimeric proteins as multi-functional regulators of cellular activity. The three mammalian isoforms of TGFβ (TGFβ-1, TGFβ-2 and TGFβ-3) signal through the same receptor and elicit similar biological responses. They are involved in physiological processes as embryogenesis, tissue remodelling and wound healing.
Molecular Formula	C 600H902N166O174S10.
Extinction Coefficient	E0.1% = 1.729 (A280 nm).
P.I	6.75.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Purity Assay	>95 % as determinate by SDS-PAGE gel.
Endotoxin Level	< 0.04 EU/ g protein (LAL method).
Formulation	Lyophilized from a buffer of Tris HCl 0.05M pH 7.4.
Activity	The biological activity of TGF- β 3 is measured in culture by its ability to inhibit the mink lung epithelial cells proliferation. (ED50 is defined as the effective concentration of growth factor that elicits a 50% inhibition in cell growth in a cell based bioassay).
Stotage And Stability	This lyophilized preparation is stable at 2-8° C, but should be kept at –20°C for long term storage. Repeated freezing and thawing is not recommended.

GENE INFORMATION

Gene Name	TGFB3 transforming growth factor, beta 3 [Homo sapiens]
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	4q24

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Location	
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 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 rendering based on 1ktz	