

Recombinant Human Transforming Growth Factor, Beta 3, Dimeric Form

Cat. No. TGFB3-006N **Lot. No.** (See product label)

SPECIFICATION

Product Overview	It is produced by transient expression of TGFβ-3 in non-transgenic plant. 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-beta 3 (TGF-beta 3) is a member of the TGF beta family of growth factors. It is involved in oxygen-dependent differentiation processes during placental development and pregnancy disorders. It also play an important role in wound repair and scarring.
Formulation	Lyophilized from a buffer of Tris HCl 0.05M pH 7.4.
Molecular formula	C600H902N166O174S10
Extinction coefficient	E0.1% = 1.729 (A280 nm).
Molecular weight	25.4 kDa
p.I	6.75
Purity assay	>95 % as determinate by SDS-PAGE gel.

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Endotoxin level	< 0.04 EU/ µg protein (LAL method).
Biological Activity	The biological activity of TGF-β3 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)
Storage	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]
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	14q24

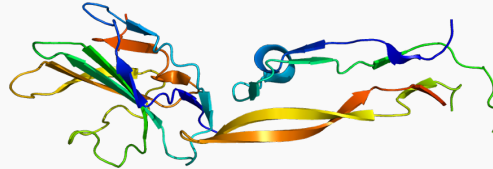
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Function

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

PDBrendering based on 1ktz.

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