

Recombinant Human Transforming Growth Factor, Beta 2, Dimeric Form

Cat. No. TGFB2-004N **Lot. No.** (See product label)

SPECIFICATION

Product Overview	It is produced by transient expression of TGFβ-2 in non-transgenic plant. Recombinant human TGFβ-2 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 2 (TGF-β2) is a secreted protein known as a potent cytokine that modulates embryonic development, bone formation, mammary development, wound healing, hematopoiesis, cell cycle progression and the production of the extracellular matrix.
Formulation	Lyophilized from a buffer of Tris HCl 0.05M pH 7.4.
Molecular formula	C602H909N167O171S10
Extinction coefficient	E0.1% = 2.02 (A280 nm).
Molecular weight	25.0 kDa
p.I	7.72
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-β2 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	TGFB2 transforming growth factor, beta 2 [Homo sapiens]
Official Symbol	TGFB2
Synonyms	TGFB2; transforming growth factor, beta 2; MGC116892; TGF-beta2; transforming growth factor, beta 2
Gene ID	7042
mRNA Refseq	NM_001135599
Protein Refseq	NP_001129071
MIM	190220
UniProt ID	P61812
Chromosome Location	1q41

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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

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