

# Recombinant Human Transforming Growth Factor, Beta 2, Dimeric Form

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

## SPECIFICATION

|                               |                                                                                                                                                                                                                                                                             |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>       | 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.                                                       |
| <b>Species</b>                | Human                                                                                                                                                                                                                                                                       |
| <b>Source</b>                 | Nicotiana Benthamiana                                                                                                                                                                                                                                                       |
| <b>Description</b>            | 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. |
| <b>Formulation</b>            | Lyophilized from a buffer of Tris HCl 0.05M pH 7.4.                                                                                                                                                                                                                         |
| <b>Molecular formula</b>      | C602H909N167O171S10                                                                                                                                                                                                                                                         |
| <b>Extinction coefficient</b> | E0.1% = 2.02 (A280 nm).                                                                                                                                                                                                                                                     |
| <b>Molecular weight</b>       | 25.0 kDa                                                                                                                                                                                                                                                                    |
| <b>p.I</b>                    | 7.72                                                                                                                                                                                                                                                                        |
| <b>Purity assay</b>           | >95% as determinate by SDS-PAGE gel.                                                                                                                                                                                                                                        |

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|                            |                                                                                                                                                                                                                                                                          |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Endotoxin level</b>     | < 0.04 EU/ µg protein (LAL method)                                                                                                                                                                                                                                       |
| <b>Biological Activity</b> | 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) |
| <b>Storage</b>             | 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

|                            |                                                                                                     |
|----------------------------|-----------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | TGFB2 transforming growth factor, beta 2 [ Homo sapiens ]                                           |
| <b>Official Symbol</b>     | TGFB2                                                                                               |
| <b>Synonyms</b>            | TGFB2; transforming growth factor, beta 2; MGC116892; TGF-beta2; transforming growth factor, beta 2 |
| <b>Gene ID</b>             | 7042                                                                                                |
| <b>mRNA Refseq</b>         | NM_001135599                                                                                        |
| <b>Protein Refseq</b>      | NP_001129071                                                                                        |
| <b>MIM</b>                 | 190220                                                                                              |
| <b>UniProt ID</b>          | P61812                                                                                              |
| <b>Chromosome Location</b> | 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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