

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

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

## SPECIFICATION

|                               |                                                                                                                                                                                                                                                                                       |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>       | 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.                                                                 |
| <b>Species</b>                | Human                                                                                                                                                                                                                                                                                 |
| <b>Source</b>                 | Nicotiana Benthamiana                                                                                                                                                                                                                                                                 |
| <b>Description</b>            | 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 plays an important role in wound repair and scarring. |
| <b>Formulation</b>            | Lyophilized from a buffer of Tris HCl 0.05M pH 7.4.                                                                                                                                                                                                                                   |
| <b>Molecular formula</b>      | C <sub>600</sub> H <sub>902</sub> N <sub>166</sub> O <sub>174</sub> S <sub>10</sub>                                                                                                                                                                                                   |
| <b>Extinction coefficient</b> | E <sub>0.1%</sub> = 1.729 (A <sub>280</sub> nm).                                                                                                                                                                                                                                      |
| <b>Molecular weight</b>       | 25.4 kDa                                                                                                                                                                                                                                                                              |
| <b>p.I</b>                    | 6.75                                                                                                                                                                                                                                                                                  |
| <b>Purity assay</b>           | >95 % as determined by SDS-PAGE gel.                                                                                                                                                                                                                                                  |

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

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

|                            |                                                                                                                                                                                                                                                                          |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Endotoxin level</b>     | < 0.04 EU/ µg protein (LAL method).                                                                                                                                                                                                                                      |
| <b>Biological Activity</b> | 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) |
| <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>           | TGFB3 transforming growth factor, beta 3 [ Homo sapiens ]                                              |
| <b>Official Symbol</b>     | TGFB3                                                                                                  |
| <b>Synonyms</b>            | Transforming Growth Factor-beta3; TGFB3; ARVD; FLJ16571; TGF-beta3; transforming growth factor, beta 3 |
| <b>Gene ID</b>             | 7043                                                                                                   |
| <b>mRNA Refseq</b>         | NM_003239                                                                                              |
| <b>Protein Refseq</b>      | NP_003230                                                                                              |
| <b>MIM</b>                 | 190230                                                                                                 |
| <b>UniProt ID</b>          | P10600                                                                                                 |
| <b>Chromosome Location</b> | 14q24                                                                                                  |

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

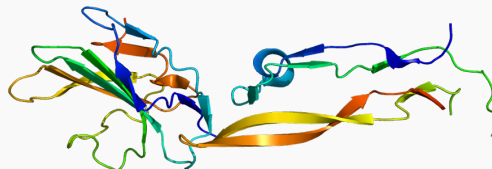
 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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

**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.**



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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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