

## Transforming Growth Factor-Beta 3 Active Protein | TGF b 3 active protein

Recombinant Human Transforming Growth Factor-Beta 3

CATALOG #  
**AAA38178**

HOST  
**E Coli**

### PRODUCT SYNONYMS

Transforming Growth Factor-Beta 3; Recombinant Human Transforming Growth Factor-Beta 3; TGF b 3 Human; Transforming Growth Factor-Beta 3 Human Recombinant; Transforming Growth Factor-beta3; TGFB3; ARVD; FLJ16571; TGF-beta3; TGF b 3 active protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | E Coli                                                                                                                                                                                                                                                                                                                                                                                         |
| Purity/Purification     | Greater than 96.0% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                  |
| Form/Format             | The protein solution contains 20% Ethanol and 0.12% Acetic acid.<br>Sterile Filtered clear solution.                                                                                                                                                                                                                                                                                           |
| Sequence                | MALDTNYCFR NLEENCCVRP LYIDFRQDLG WKWVHEPKGY YANFCSGPCP YLRSADTTTHS TVLGLYNTLN<br>PEASASPCCV PQDLEPLTIL YYVGRTPKVE QLSNMVVKSC KCS                                                                                                                                                                                                                                                               |
| Sequence Length         | 412                                                                                                                                                                                                                                                                                                                                                                                            |
| Protein Content         | Protein quantitation was carried out by two independent methods:1. UV spectroscopy at 280 nm using the absorbency value of 1.718 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics). 2. Analysis by RP-HPLC, using a calibrated solution of TGF-b 3 as a Reference Standard. |
| Biological Activity     | The activity is determined by the ability to induce chondrogenic differentiation.                                                                                                                                                                                                                                                                                                              |
| Preparation and Storage | TGF-beta 3 although stable at room temperature for 3 weeks, should be stored at 4 degree C.For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).                                                                                                                                                                                                                 |

### ADDITIONAL INFORMATION

|                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for TGF b 3 active protein | <p><b>Description:</b> TGF-beta 3 Human Recombinant produced in E Coli is a disulfide-linked homodimeric, non-glycosylated, polypeptide chain containing two 112 amino acid chains and having a total molecular mass of 25.5kDa. The TGF-b 3 is purified by standard chromatographic techniques.</p> <p><b>Introduction:</b> Transforming growth factor betas (TGF Betas) mediate many cell-cell interactions that occur during embryonic development. Three TGF Betas have been identified in mammals. TGF Beta 1, TGF Beta 2 and TGF Beta 3 are each synthesized as precursor proteins that are very similar in that each is cleaved to yield a 112 amino acid polypeptide that remains associated with the latent portion of the molecule.</p> |
| Product Categories/Family for TGF b 3 active protein   | Cytokines and Growth Factors; Growth Factors; Transforming Growth Factor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

### NCBI AND UNIPROT INFORMATION

|                           |             |
|---------------------------|-------------|
| NCBI GI #                 | 4507465     |
| NCBI GeneID               | 7043        |
| NCBI Accession #          | NP_003230.1 |
| NCBI GenBank Nucleotide # | NM_003239.3 |

|                                  |                                                                                         |
|----------------------------------|-----------------------------------------------------------------------------------------|
| UniProt Accession #              | P10600; Q8WV88                                                                          |
| Molecular Weight                 | 35,708 Da                                                                               |
| NCBI Official Full Name          | transforming growth factor beta-3 preproprotein                                         |
| NCBI Official Synonym Full Names | transforming growth factor, beta 3                                                      |
| NCBI Official Symbol             | TGFB3                                                                                   |
| NCBI Official Synonym Symbols    | ARVD; RNHF; ARVD1; TGF-beta3                                                            |
| NCBI Protein Information         | transforming growth factor beta-3; TGF-beta-3; prepro-transforming growth factor beta-3 |
| UniProt Protein Name             | Transforming growth factor beta-3                                                       |
| UniProt Gene Name                | TGFB3                                                                                   |
| UniProt Synonym Gene Names       | TGF-beta-3; LAP                                                                         |
| UniProt Entry Name               | TGFB3_HUMAN                                                                             |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-tgf-b-3-active-protein/transforming-growth-factor-beta-3/38178>