



***Recombinant Human TGF- $\beta$ 3***  
*(Transforming Growth Factor beta 3)*

*Catalog Number: 100-109*  
*Accession Number: P10600*

***Specifications and Uses:***

**Alternate Names:** None

**Description:**

The Transforming Growth Factors (TGFs) are multifunctional peptides that regulate growth and differentiation in a variety of cells. Recent data suggests that individual TGF- $\beta$  isoforms (TGF- $\beta$ 1, - $\beta$ 2 and - $\beta$ 3) have overlapping, yet distinct biological actions and target cell specificities, both in developing and adult tissues. TGF- $\beta$ 3 is a new isoform that is presumed to play an important role in wound repair and scarring. TGF- $\beta$ 3 is also thought to be involved in osteoblast proliferation, chemotaxis, and collagen synthesis. Recombinant human TGF- $\beta$ 3 is a non-glycosylated, disulfide-linked homodimer, containing two 112 amino acid chains, with a total molecular weight of 25.5 kDa.

**Source:** *E.coli*

**Physical Appearance:** Sterile filtered clear solution.

**Formulation and Stability:**

Recombinant human TGF- $\beta$ 3 is provided in a solution (0.25 mg/mL) that contains 20% Ethanol and 0.12% acetic acid (AcOH).

Stable at 4°C for 1 year from date of purchase.

**Reconstitution:**

Not applicable.

**Protein Content and Purity (typically  $\geq$  98%) determined by:**

Reducing and Non-reducing SDS-PAGE

**Endotoxin Level:**

Measured by kinetic LAL analysis and is typically  $\leq$  1 EU/ $\mu$ g protein.

**Biological Activity:**

The activity is determined by the cell toxicity assay, using the WHO Standard 98/608 as a direct comparison, and is typically less than 0.05 ng/mL.

**AA Sequence:**

ALDTNYCFRN LEENCCVRPL YIDFRQDLGW KVVHEPKGYG ANFCSGPCPY LRSADTTHST VLGLYNTLNP  
EASASPCCVP QDLEPLTILY YVGRTPKVEQ LSNMVKVSKS CS

**THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!**

Gentaur Molecular Products  
Voortstraat 49  
1910 Kampenhout, Belgium