

BACKGROUND

The Transforming Growth Factors (TGFs) are multifunctional peptides that regulate growth and differentiation in a variety of cells. Recent data suggest that individual TGF- β isoforms (TGF- β 1, - β 2 and - β 3) have overlapping, yet distinct biological actions and target cell specificities, both in developing and adult tissues. TGF- β 3 is a new isoform that is presumed to play an important role in wound repair and scarring. TGF- β 3 is also thought to be involved in osteoblast proliferation, chemotaxis, and collagen synthesis.

Recombinant human TGF- β 3 is a non-glycosylated, disulfide-linked homodimer. Each monomer is 112 amino acids, having a total molecular mass of 25.5 kDa.

Alternative Names:

None

Amino Acid Sequence:

ALDTNYCFRN LEENCCVRPL YIDFRQDLGW KWHPEPKGY
ANFCSGPCPY LRSADTTHST VLGLYNTLNP EASASPCCV
QDLEPLTILY YVGRTPKVEQ LSNMVKSKC CS

TECHNICAL INFORMATION

Source: *E.coli*

Physical Appearance:

Sterile filtered clear solution.

Formulation:

Recombinant human TGF- β 3 is provided in a solution (0.25 mg/ml) that contains 20% Ethanol and 0.12% Acetic Acid.

Stability:

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

Reconstitution:

Not applicable.

Protein Content and Purity determined by:

- UV spectroscopy at 280 nm
- RP-HPLC calibrated against a known standard
- Quantitation against a known standard via reducing and non-reducing SDS-PAGE gels.

Endotoxin Level:

Endotoxin level, as measured by LAL analysis, is <0.01ng/ug or <0.1EU/ug.

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.

Products are for research use only. They are not intended for human, animal, or diagnostic applications.

