



## Product Datasheet

<b>Product Name</b>	Recombinant Human Transforming Growth Factor-Beta 3
<b>Cata No</b>	CB500270
<b>Source</b>	<i>Escherichia Coli.</i>
<b>Synonyms</b>	Transforming Growth Factor-beta3, TGFB3, ARVD, FLJ16571, TGF-beta3.

### Description

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.

TGF-b3 Human Recombinant produced in E.Coli is a disulfide-linked homodimeric, non-glycosylated, polypeptide chain containing 112 amino acids and having a molecular mass of 25,445 Dalton. The TGF-b 3 is purified by standard chromatographic techniques.

### Physical Appearance

Sterile Filtered clear solution.

### Purity

Greater than 98.0% as determined by:

(a) Analysis by RP-HPLC.

(b) Analysis by SDS-PAGE.

### Formulation

The protein solution contains 20% Ethanol and 0.12% Acetic acid.

### Stability

TGF-beta 3 although stable at room temperature for 3 weeks, should be stored at 4°C.

For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

### Sequence

The sequence of the first five N-terminal amino acids was determined and was found to be Ala-Leu-Asp-Thr-Asn.

### Biological Activity

The ED<sub>50</sub> as determined by the cell toxicity assay using the WHO Standard 98/608 as a direct comparison is < 0.05ng/ml.

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