

Datasheet

Transforming Growth Factor-beta 3

Human Recombinant

Product	Description	Catalogue-No.	Size
TGF-beta 3	Transforming growth factor-beta 3, human recombinant	CB-1111151 CB-1111153	2 µg 10 µg

Product description

Synonyms: TGFB3, ARVD, FLJ16571, TGF-beta3

Transforming growth factor-beta (TGF-b) mediate many cell-cell interactions that occur during embryonic development. Three different TGF-betas have been identified in mammals. TGF-b1, TGF-b2 and TGF-b3 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-beta 3 human rec. produced in E. coli is a disulfide-linked homo-dimeric, non-glycosylated, polypeptide chain containing two 113 amino acid chains and having a total molecular mass of 25.8kDa. TGF-beta 3 human rec. is purified by standard chromatographic techniques.

Solubility and storage conditions

TGF-beta 3 human rec. is stable at 2-8 C for up to a week. It is preferable to store at -20 °C. For long term storage it is preferable to add a carrier protein (0.1% HSA or BSA).

Composition

Sterile filtered clear solution. The protein solution contains 20% ethanol and 10 mM acetic acid. The final protein concentration is 0.25 mg/ml.

Protein quantitation was carried out by two independent methods:

1. UV spectroscopy at 280 nm using the absorbency value of 1.718 as extinction coefficient for a 0.1% (1 mg/ml) solution.
2. Analysis by RP-HPLC, using a calibrated solution of TGF-b3 as a reference standard.

Amino acid sequence: MALDTNYCFRN LEENCCVRPL YIDFRQDLGW KVVHEPKGYY ANFCSGPCPY LRSADTTHST VLGLYNTLNP EASASPCCVP QDLEPLTILY YVGRTPKVEQ LSNMVVKSCK CS

Purity: > 95.0% as determined by SDS-PAGE.

Biological activity: The activity is determined by the ability to induce chondrogenic differentiation.

Technical support

For technical support, questions or remarks please contact your local PAN-Biotech partner or the technical department of PAN-Biotech via email (info@pan-biotech.com) or phone +49-8543-601630.

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