

Datasheet

TGF beta 1

Human Recombinant

Product	Description	Catalogue-No.	Size
TGF beta 1	Growth factor, human recombinant	CB-1111131 CB-1111122	1 µg 5 µg

Product description

Synonyms: Transforming growth factor beta-1, TG-beta-1, CED, DPD1, TGFB, TGF-b 1, LAP, TGFB1
Transforming growth factor betas (TGFbetas) mediate many cell-cell interactions that occur during embryonic development. In mammals three TGFbetas have been identified. TGFb1, TGFb2 and TGFb3 are 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 1 hum. rec. is produced in Human 293 cells as a homodimeric polypeptide chain containing 2 x 112 amino acids and having a total molecular mass of 25.6kDa. The protein is purified by proprietary chromatographic techniques.

Solubility and storage conditions

The lyophilized TGF beta 1 should be reconstituted in sterile 10mM Acetic Acid to a concentration not less than 100 µg/ml. This solution can be further diluted to other aqueous solutions.

Although stable at room temperature for three weeks, it is recommended that TGF beta 1 is stored desiccated below -18 °C. Reconstituted TGF beta 1 should be stored in working aliquots at -20°C. Aliquots should be used within 2-7 days if stored at 2 – 8 °C.

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

Please prevent freeze-thaw cycles.

Composition

Lyophilized from a sterile filtered solution containing 50mM Glycine, 50mM sodium chloride, 10% Trehalose and BSA (4:1 protein to BSA ratio) pH 4.0.

Purity: Greater than 95.0% determined by SDS-Page

Amino acid sequence: ALDTNYCFSS TEKNCCVRQL YIDFRKDLGW KWIHEPKGYH ANFCLGPCPY IWSLDTQYSK VLALYNQHNP GASAAPCCVP QALEPLPIVY YVGRKPKVEQ LSNMIVRSCK CS.

Biological activity: The ED₅₀ as determined by the dose-dependent inhibition of IL-4-induced proliferation of mouse HT-2 cells is less than 0.05ng/ml, corresponding to a specific activity of 2x10⁷ units/mg

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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