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Certificate of Analysis and Data Sheet

Recombinant Human Transforming Growth Factor-Beta 1

Catalog No.

228-11495

Source:

Escherichia Coli.

Synonyms

Transforming growth factor beta-1, TGF-beta-1, CED, DPD1, TGFB.

Introduction

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.

Description

The TGF-b 1 (177-391 a.a.) is purified by standard chromatographic techniques and shows a 51 kDa band on SDS-PAGE (including GST tag).

Physical Appearance

Sterile Filtered solution at a concentration of 0.1 mg/ml.

Formulation

The protein solution contains 50mM Tris-Acetate, pH-7.5, 1mM EDTA and 20% Glycerol.

Stability

TGF-beta 1 although stable at 4°C for 1 week, should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Purity

Greater than 80.0% as determined by (a) Analysis by RP-HPLC.
(b) Analysis by SDS-PAGE.

Amino acid sequence

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

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Not for diagnostic or therapeutic use.**