



Transforming Growth Factor-Beta 1 (113 amino acids), human recombinant (rHuTGF-b1)

Catalog No: 97293
Lot No: XXXXX
Source: *E. coli*
Synonyms: Transforming growth factor beta-1, TGF-beta-1, CED, DPD1, TGFB, TGF-b 1

Background

Transforming growth factor betas (TGFBetas) mediate many cell-cell interactions that occur during embryonic development. Three TGFBetas have been identified in mammals. TGFBeta1, TGFBeta2 and TGFBeta3 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

TGF-b1 human recombinant produced in *E. coli* is a single, non-glycosylated, polypeptide chain containing 113 amino acids (279-390) and having a total molecular mass of 12.9 kDa. TGF-b1 (113) is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered colorless solution.

Formulation

The TGF-b 1 solution (0.5 mg/ml) contains 10 mM sodium citrate (pH 3.5) and 10% glycerol.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Purity

Greater than 95.0% as determined by SDS-PAGE.

Amino Acid Sequence

MALDTNYCFS STEKNCCVRQ LYIDFRKDLG WKWIHEPKGY HANFCLGPCP YIWSLDTQYS KVLALYNQHN PGASAAPCCV
PQALEPLPIV YYVGRKPKVE QLSNMIVRSC KCS

Usage

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