



Transforming Growth Factor-Beta 3, mouse recombinant (rmTGF-b3)

Catalog No: 97576
Lot No: XXXXX
Source: *E. coli*
Synonyms: Transforming Growth Factor-beta3, TGFB3, ARVD, FLJ16571, TGF-beta3

Background

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 113 amino acid polypeptide that remains associated with the latent portion of the molecule.

Description

TGF-b3 mouse recombinant produced in *E. coli* is a disulfide-linked homodimeric, non-glycosylated, polypeptide chain containing 113 amino acids and having a molecular mass of 25.7 kDa. TGF-b 3 is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered clear solution.

Formulation

Mouse TGFB3 protein solution (0.25 mg/ml) contains 20% ethanol and 10 mM acetic acid.

Stability

Mouse TGFB3, 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).

Purity

Greater than 95.0% as determined by SDS-PAGE.

Amino Acid Sequence

MALDTNYCFR NLEENCCVRP LYIDFRQDLG WKWVHEPKGY YANFCSGPCP YLRSADTTHS TVLGLYNTLN PEASASPCCV
PQDLEPLTIL YYVGRTPKVE QLSNMVVKSC KCS

Activity

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

Usage

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