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Transforming Growth Factor-Beta 3, His Tag, human recombinant (rHuTGF-b3-His)

Catalog No: 97386
Lot No: XXXXX
Source: *Nicotiana benthamiana*
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 112 amino acid polypeptide that remains associated with the latent portion of the molecule.

Description

TGF-b3 human recombinant produced in plant is a disulfide-linked homodimeric, glycosylated, polypeptide chain containing 118 amino acids and having a molecular mass of 27.2 kDa. TGFB3 is fused to 6xHis Tag at N-terminus and purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

Lyophilized from a concentrated (1 mg/ml) solution containing 50 mM Tris-HCl pH 7.4.

Solubility

It is recommended to reconstitute the lyophilized TGFB3 in sterile 5 mM HCl and 50 µg/ml BSA at a concentration of 0.05 mg/ml, which can then be further diluted to other aqueous solutions.

Stability

Lyophilized TGFB3, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution TGFB3 Human should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity

Greater than 95.0% as determined by SDS-PAGE.

Amino Acid Sequence

HHHHHALDTN YCFRNLEENC CVRPLYIDFR QDLGKWKVHE PKGYANFCS GPCPYLRSAD TTHSTVLGLY NTLNPEASAS
PCCVPQDLEP LTILYYVGRV PKVEQLSNMV VKSCKCS

Activity

The biological activity of TGFB3 is measured in culture by its ability to inhibit the mink lung epithelial (Mv1Lu) cells proliferation. ED50 = 40 ng/ml corresponding to a specific activity of 25,000 units/mg.



Usage

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