9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

TGFB3 Human, Plant

Transforming Growth Factor-Beta 3 Human Recombinant, Plant
GRF0397

Product Overview

Name	TGFB3 Human, Plant

Description

Transforming Growth Factor-Beta 3 Human Recombinant, Plant

Accession (Primary)	P10600

Synonyms

Transforming Growth Factor-beta3, TGFB3, ARVD, FLJ16571, TGF-beta3.

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.

Source

Nicotiana benthamiana.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation

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

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

HHHHHALDTNYCFRNLEENCCVRPLYIDFRQDLGWKWVHEPKG YYANFCSGPCPYLRSADTTHSTVLGLY NTLNPEASASP CCVPQDLEPLTILYYVGRTPKVEQLSNMVVKSCKCS.

Biological Activity

The biological activity of TGFB3 is measured in culture by its ability to inhibit the mink lung epithelial (Mv1Lu) cells

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proliferation. ED50 ? 40ng/ml corresponding to a specific activity of 25,000 Units/mg.

Solubility

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

Precautions

TGFB3 Human, Plant is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P10600)