32-1773: TGF beta 3 Plant Recombinant Protein

Alternative Name : Transforming Growth Factor-beta3,TGFB3,ARVD,FLJ16571,TGF-beta3.

Description

Source : Nicotiana benthamiana. TGFB3 Human Recombinant produced in plant is a disulfide-linked homodimeric, glycosylated, polypeptide chain containing 118 amino acids and having a molecular mass of 27.2kDa. The TGFB3 is fused to 6xHis tag at N-terminus and purified by standard chromatographic techniques. 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.

Product Info

Amount :	5 µg
Purification :	Greater than 95.0% as determined by SDS-PAGE.
Content :	Lyophilized from a concentrated (1mg/ml) solution containing 50mM Tris-HCl pH-7.4.
Storage condition :	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.
Amino Acid :	HHHHHALDTNYCFRNLEENCCVRPLYIDFRQDLGWKWVHEPKGYYANFCSGPCPYLRSADTTHS TVLGLYNTLNPEASASPCCVPQDLEPLTILYYVGRTPKVEQLSNMVVKSCKCS.

Application Note

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