

TGF b 3 Human, Plant

Description: 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.

Catalog #: CYP5-595

For research use only.

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

Source: Nicotiana benthamiana.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Amino Acid Sequence:

HHHHHALDTNYCFRNLEENCCVRPLYIDFRQDLGWKVVHEPKGYANFCSGPCPYLRSDTTH
STVLGLYNTLNPEASAPCCVQDLEPLTILYYVGRTPKVEQLSNMVKSKCS.

Purity: Greater than 95.0% as determined by SDS-PAGE.

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.

Usage:

NeoBiolabs products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:

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

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.

Biological Activity:

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.

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