

TGF b 1 Human Recombinant

Description: TGFB1 Human Recombinant produced in Human 293 cells is a homodimeric polypeptide chain containing 2 x 112 amino acids and having a total molecular mass of 25kDa. The TGFB1 is purified by proprietary chromatographic techniques.

Synonyms: Transforming growth factor beta-1, TGF-beta-1, CED, DPD1, TGFB, TGF-b 1, LAP, TGFB1.

Source: Human 293 cells.

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

Amino Acid Sequence: ALDTNYCFSS TEKNCCVRQL YIDFRKDLGW KWIHEPKGYH
ANFCLGPCPY IWSLDTQYSK VLALYNQHNP GASAAPCCVP QALEPLPIVY YVGRKPKVEQ
LSNMIVRSCK CS.

Purity: Greater than 98.0% as determined by SDS-PAGE.

Formulation:

Lyophilized from a concentrated (1mg/ml) solution containing 10mM HCl & 50µg BSA per mg/ml of protein.

Stability:

Lyophilized TGFB1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution TGFB1 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:

NeoBiolab's 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 TGFB1 in sterile 5mM HCl & 50µg/ml BSA at a concentration of 0.1mg/ml, which can then be further diluted to other aqueous solutions.

Introduction:

Transforming growth factor betas (TGFβs) mediate many cell-cell interactions that occur during embryonic development. Three TGFβs have been identified in mammals. TGFβ1, TGFβ2 and TGFβ3 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 ED50, as measured by the dose-dependent inhibition of IL-4-induced proliferation of mouse HT-2 cells is typically 0.1-0.15ng/ml.

References:

1. Title: Imatinib attenuates skeletal muscle dystrophy in mdx mice . Publication: Published online

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Non-Specific Cytotoxic Cell Receptor Protein 1: A New Member of the Lectin-Type Subfamily of

F-Box Proteins.Publication:Kallio H, Tolvanen M, Jnis J, Pan P-w, Laurila E, et al. (2011)

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Lectin-Type Subfamily of F-Box Proteins. PLoS ONE 6(11): e27152.

doi:10.1371/journal.pone.0027152Link:<http://www.plosone.org/article/info%3Adoi%2F10.1371%2F>

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