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## Product Data Sheet

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Product Name: TGFB2 Human  
 Cat. No.: GP20949  
 Batch No.: 1

**Product Data**

Purity >98% Source Nicotiana benthamiana.

Physical Appearance solid Shipping Condition Shipped at Room temp.

Synonyms Transforming growth factor; beta 2; cetermin; Glioblastoma-derived T-cell suppressor factor; polyergin; G-TSF; TGF-beta2; TGF-beta-2; transforming growth factor beta-2; BSC-1 cell growth inhibitor; TGFB-2.

Amino Acid Sequence HHHHHHALDAAYCFRNVQDNCCLRPYIDFKRDLGWKWIHEPKGYNANFCAGACPYLWSSDTQHSRVLSLYNTINPEASASPCCVSQDLEPLTI  
 LYYIGKTPKIEQLSNMIVKSKCS.

Solubility It is recommended to reconstitute the lyophilized TGFB2 in sterile 18M-cm H2O not less than 1?g/40?l, which can then be further diluted to other aqueous solutions.

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

**Introduction**

TGFB2 is a 27.08 kDa protein having two identical 118 amino acid peptide chains linked by a single disulfide bond. TGFB2 is part of a family of five related cytokines that have an extensive variation of normal and neoplastic cells, indicating the importance of these homo-dimer proteins as multi-functional regulators of cellular activity. The three mammalian isoforms of TGF- $\beta$  (TGF $\beta$ 1, TGF $\beta$ 2 and TGF $\beta$ 3) signal through the same receptor and stimulate similar biological responses. They are involved in physiological processes as embryogenesis, tissue remodelling and wound healing.

**Biological Activity**

The biological activity of TGFB2 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.

**Stability**

Lyophilized TGFB2 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution TGFB2 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.

**Background**

TGFB2 Human Recombinant produced in plants is a homodimeric polypeptide chain containing 2 x 118 amino acids and having a total molecular mass of 27.08kDa. The TGFB2 is fused to 6xHis Tag at N-terminus and purified by proprietary chromatographic techniques.

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA