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## Product Data Sheet

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Product Name: TGFB1 Human Recombinant

Cat. No.: GP20943

Batch No.: 1

**Product Data**

Purity	>98%	Source	CHO cells.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Transforming growth factor beta-1; TGF-beta-1; CED; DPD1; TGFB; TGF-b 1; LAP; TGFB1.		
Amino Acid Sequence	ALDTNYCFSS TEKNCCVRQL YIDFRKDLGW KWIHEPKGYH ANFCLGPCPY IWSLDTQYSK VLALYNQHNP GASAAPCCVP QALEPLPIVY YVGRKPKVEQ LSNMIVRSCK CS.		
Solubility	It is recommended to reconstitute the lyophilized TGFB1 in sterile 10mM HCl at a concentration of 0.1 mg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a sterile filtered solution containing 0.1 % trifluoroacetic acid (TFA) And trehalose (1:20 protein to Trehalose ratio).		

**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 determined by the dose-dependent inhibition of IL-4-induced proliferation of HT-2 cells is 0.0149ng/ml, corresponding to a specific activity of 6.7x10<sup>7</sup>units/mg.

**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

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

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between 2-7 days and for future use below  $-18^{\circ}\text{C}$ . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Background

TGFB1 Human Recombinant produced in CHO cells is a glycosylated homodimeric polypeptide chain containing 2 x 112 amino acids and having a total molecular mass of 25.6kDa. The TGFB1 is purified by proprietary chromatographic techniques.

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