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## Product Data Sheet

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Product Name: TNF b Human, His  
 Cat. No.: GP20980  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Lymphotoxin-alpha; LT-alpha; TNF-beta; Tumor necrosis factor ligand superfamily member 1; LTA; LT; TNFB; TNFSF1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MLPGVGLTPS AAQTARQHPK MHLAHSTLKP AAHLIGDPSK QNSLLWRANT DRAFLQDGFS LSNNLLVPT SGIYFVYSQV VFSGKAYSPK ATSSPLYLAH EVQLFSSQYP FHVPLLSSQK MVYPGLQEPW LHSMYHGAAF QLTQGDQLST HTDGIPHLVL SPSTVFFGAF AL.		
Formulation	TNF-b protein solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 30% glycerol, 0.1M NaCl and 1mM DTT.		

### Introduction

TNF-b is a potent multifunctional cytokine produced mainly by activated T and B lymphocytes. The protein has been shown to have a specific potent cytotoxic activity on tumor cells and a variety of other target cells as well as being a mediator of inflammation and immune function.

### Biological Activity

Measured in a cytotoxicity assay using L929 mouse fibrosarcoma cells in the presence of the metabolic inhibitor actinomycin D. The ED50 for this effect is <0.3 ng/ml.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

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

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TNF-b Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 192 amino acids (35-205 a.a.) and having a molecular mass of 20.9kDa. TNF-b is fused to a 21 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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