

# Human TNF b Recombinant Protein



RPPB1003

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## Product Information    Protein Information

**Product SKU:**

RPPB1003

**Accession:**

P01374

**Host:**

Escherichia Coli.

**Protein description:**

Tumor Necrosis Factor- $\beta$  Human Recombinant (Lymphotoxin) produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 172 amino acids and having a molecular mass of 18645 Dalton. The TNF- $\beta$  is purified by standard chromatographic techniques.

**Appearance:**

Sterile Filtered White lyophilized (freeze-dried) powder.

**Synonyms:**

Lymphotoxin- $\alpha$ , LT- $\alpha$ , TNF- $\beta$ , Tumor necrosis factor ligand superfamily member 1, LTA, LT, TNFB, TNFSF1.

**Formulation:**

Lyophilized protein with no additives.

**Purity:**

Greater than 98.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAG.

**Solubility:**

It is recommended to reconstitute the lyophilized Tumor Necrosis Factor- $\beta$  in sterile 18M $\Omega$ -cm H<sub>2</sub>O not less than 100 $\mu$ g/ml, which can then be further diluted to other aqueous solutions.

**Stability:**

Lyophilized Tumor Necrosis Factor- $\beta$  although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution TNF- $\beta$  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.

**Amino Acid Sequence:**

MLPGVGLTPS AAQTRQHPK MHLAHSTLKP AAHLIGDPSK QNSLLWRANT DRAFLQDGF SLSNNSLLVPT  
SGIYFVYSQV VFSGKAYSPK ATSSPLYLAH EVQLFSSQYP FHVPLLSSQK MVYPGLQEPW LHSMYHGAAF  
QLTQGDQLST HTDGIPHLVL SPSTVFFGAF AL.

**Biological Activity:**

The ED<sub>50</sub> as determined by the cytolysis of murine L929 cells in the presence of Actinomycin D is < 0.05ng/ml, corresponding to a Specific Activity of 20,000,000IU/mg.