

## 32-20241: Recombinant Human TNF-Beta(Discontinued)

**Reactivity :** Human, Mouse

**Alternative Name :** Tumor Necrosis Factor-Beta, TNFSF1B, Lymphotoxin-alpha (LT-Alpha)

### Description

#### Source:E.coli

TNF-Beta is a potent mediator of inflammatory and immune responses. It belongs to the TNF family of ligands, and signals through TNFR1 and TNFR2. TNF-Beta is produced by activated T and B lymphocytes, and has similar activities to TNF-Alpha. Like TNF-Alpha, TNF-Beta is involved in the regulation of various biological processes, including cell proliferation, differentiation, apoptosis, lipid metabolism, coagulation, and neurotransmission. TNF-Beta is secreted as a soluble polypeptide, but can form heterotrimers with lymphotoxin-Beta, which effectively anchors the TNF-Beta to the cell surface. TNF-Beta is cytotoxic to a wide range of tumor cells. Recombinant Human TNF-Beta is a secreted 172 amino acid protein (18.6 kDa) which forms an active non-disulfide-linked homotrimer structure in solution.

### Product Info

**Amount :** 5 µg / 20 µg

**Purification :** Purity:  $\geq 98\%$  by SDS-PAGE gel and HPLC analyses.

**Amino Acid :** MLPGVGLTPS AAQTARQHPK MHLAHSTLKP AAHLIGDPSK QNSLLWRANT DRAFLQDGFS LSNNLLVPT  
SGIYFVYSQV VFSGKAYSPK ATSSPLYLAH EVQLFSSQYP FHVPLLSSQK MVYPGLQEPW LHSMYHGAAF  
QLTQGDQLST HTDGIPHLVL SPSTVFFGAF AL

### Application Note

The  $\text{ED}_{50}$  as determined by the cytotoxicity of murine L929 cells in the presence of Actinomycin-D is  $\leq 0.05$  ng/ml, corresponding to a specific activity of  $\geq 2 \times 10^6$  IU/mg.