

**HUMAN TNF BETA PROTEIN****Cat.#:** 12105**Product Name:** Human TNF Beta Protein**Size:** 10 µg, 50 µg and 100 µg**Synonyms:** Lymphotoxin-Alpha;LT-Alpha;TNF-Beta;Tumor Necrosis Factor Ligand Superfamily Member 1;LTA;TNFB;TNFSF1**Target:** TNF**UNIPROT ID:** P01375**Description:** Recombinant Human Tumor Necrosis Factor Beta is produced by our E.coli expression system and the target gene encoding Leu35-Leu205 is expressed.**Background:** Tumor Necrosis Factor  $\beta$  (TNF- $\beta$ ) is a secreted protein belonging to the tumor necrosis factor family. TNF- $\beta$  binds to TNFRSF1A/TNFR1, TNFRSF1B/TNFR and TNFRSF14/HVEM in homotrimeric form, binds to TNFRSF3/LTBR in heterotrimeric form with LTB. TNF- $\beta$  forms heterotrimers with lymphotoxin-beta, which anchors TNF- $\beta$  to the cell surface. TNF- $\beta$  mediates the inflammatory, immunostimulatory, and antiviral response, involves in the formation of second lymphoid organs during development, has a role in apoptosis. TNF- $\beta$  is produced by lymphocytes and cytotoxic for a variety of tumor cells in vitro and in vivo.**Species/Host:** E.coli**Molecular Weight:** 18.8 KDa**Molecular Characterization:** Not available**Purity:** Greater than 95% as determined by reducing SDS-PAGE.**Formulation & Reconstitution:** Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.**Storage & Shipping:** Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

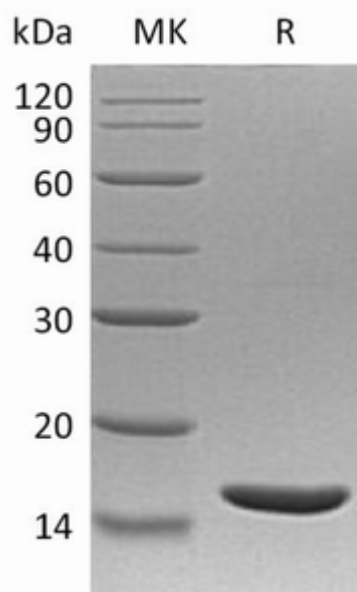


Figure 1. Greater than 95% as determined by reducing SDS-PAGE.