rM TNF-α

recombinant Mouse Tumor Necrosis Factor-α
Product code: A8297

**Description:**
Recombinant Mouse TNF-α produced in *S. lividans* is a single, non-glycosylated, polypeptide chain containing 156 amino acids and having a molecular mass of 17301.32 Dalton.

**Physical Appearance:** sterile filtered white lyophilized (freeze-dried) powder.

**Source:** *Streptomyces lividans*

**Formulation:** Each mg contains 50 mM Tris-HCl pH 8 and 20 mM NaCl.

**Reconstitution:** It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/ml, which can be further diluted into other aqueous solutions.

**Stability:** Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended to add a carrier protein (0.1 % HSA or BSA) for long term storage.

**Purity:** > 98% as determined by RP-HPLC, reducing and non-reducing SDS-PAGE.

**Protein Content:** determined by UV spectroscopy at 280 nm. Analysis by RP-HPLC calibrated against a known standard. Quantitation on SDS-PAGE against a known standard.

**Biological Activity:** rM TNF-α is fully biologically active when compared to standard. The ED₅₀ as determined by the cytolysis of murine L929 cells in the presence of Actinomycin D is less then 0.05 ng/ml, corresponding to a Specific Activity of 9 x 10⁸ IU/mg.

**Amino Acid Sequence:**
MLRSSQNS CKPVARHVVAN HQVEEQLEWL SQRANALLAN GMDLKDNLQVL VPADGLYLV SQVLFKGQGC PDYVVLTHTV SRFAISYQEK VNLLSAVKSP CPDFTEPAEGAE LKPWYEPIYL GGVFQLEKGD QLSAEVNLPK YLDFAESQV YFGVIAL

**References**
5.) The role of tumour necrosis factor alpha and the peroxisome proliferator-activated receptor alpha in modulating the effects of fumonisin in mouse liver. *Toxicology* (2006) 222(3), 165-174