

## 32-6560: TNFA Rat, His Active

**Application :** Functional Assay

**Alternative Name :** Tumor Necrosis Factor-alpha, TNF a His, Cachectin, TNF-alpha, Tumor necrosis factor ligand superfamily member 2, TNF-a, N-terminal fragment, NTF, Intracellular domain 1, Intracellular domain 2, ICD2, C-domain 1, C-domain 2, Tumor necrosis factor, soluble form, Tnfa, Tnfsf2, RATTNF, Tnfa.

### Description

Source: Escherichia Coli.

Sterile Filtered colorless liquid.

Tumor necrosis factor is a cytokine involved in systemic inflammation and is a member of a group of cytokines that all stimulate the acute phase reaction. TNF is mainly secreted by macrophages. TNF causes apoptotic cell death, cellular proliferation, differentiation, inflammation, tumorigenesis and viral replication, TNF is also involved in lipid metabolism, and coagulation. TNF's primary role is in the regulation of immune cells. Dysregulation and, in particular, overproduction of TNF have been implicated in a variety of human diseases- autoimmune diseases, insulin resistance, and cancer.

TNFA Rat Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 181 amino acids (80-235 a.a) and having a molecular mass of 19.9kDa. TNFA Rat is expressed with an 25 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

### Product Info

**Amount :** 2 µg / 10 µg

**Purification :** Greater than 90.0% as determined by SDS-PAGE.

**Content :** TNFA Rat protein solution (1mg/ml) contains Phosphate Buffered Saline (pH 7.4), 10% glycerol and 1mM DTT.

**Storage condition :** 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.

**Amino Acid :** MGSSHHHHHH SSGLVPRGSH MGSMLRSSH QNSSDKPVAH VVANHQAEQ LEWLSQRANA  
LLANGMDLKD NQLVVPADGL YLIYSQVLFK GQGCPTYVLL THTVSRFAIS YQEKVSLLSA IKSPCKDTP  
EGAELKPWYE PMYLGGVFQL EKGDLLSAEV NLPKYLDITE SGQVYFGVIA L.

### Application Note

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 <= to 0.2 ng/ml.