

DATASHEET
Version 20181206**TNF- α , Rhesus Macaque****Cat. No.:** Z03311-1**Size:** 1.0 mg

Synonyms: Tumor necrosis factor, Cachectin, TNF-alpha, Tumor necrosis factor ligand superfamily member 2, TNF-a, TNF, TNFA, TNFSF2.

Description:

Tumor Necrosis Factor-Alpha (TNF- α) plays a major role in regulating growth, differentiation, inflammation, viral replication, tumorigenesis, and autoimmune disease. TNF alpha-1a is a potent lymphoid factor that exerts cytotoxic effects on a wide range of tumor cells. In addition to inducing hemorrhagic necrosis of tumors, studies indicate TNF is involved in certain types of tumorigenesis, tumor metastasis, viral replication, septic shock, fever, inflammation, Crohn's disease, rheumatoid arthritis and graft-versus-host disease.

Recombinant Rhesus Macaque TNF- α produced in *E. coli* is a single, non-glycosylated polypeptide chain containing 157 amino acids. A fully biologically active molecule, Recombinant Rhesus Macaque TNF- α has a molecular mass of 17.4 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

Source: *E. coli*

Biological Activity: ED₅₀ < 60 pg/ml, measured in a cytotoxicity assay using mouse L-929 cells in the presence of actinomycin D, corresponding to a specific activity of > 1.6 $\times 10^7$ units/mg.

Molecular Weight: 17.4 kDa, observed by reducing SDS-PAGE.

Formulation: Lyophilized after extensive dialysis against PBS

Reconstitution: Reconstituted in ddH₂O at 100 μ g/ml.

Purity: > 95% as analyzed by SDS-PAGE & HPLC

Endotoxin Level: < 0.2 EU/ μ g, determined by LAL method.

Storage: Lyophilized recombinant Rhesus Macaque TNF- α , remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Rhesus Macaque TNF- α should be stable up to 1 week at 4°C or up to 3 months at -20°C.