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Recombinant Mouse TNF-alpha

Description: 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, over production of TNF have been implicated in a variety of human diseases- autoimmune diseases, insulin resistance, and cancer.

TNF-alpha produced in *S. Lividans* is a single, non glycosylated polypeptide chain containing 156 amino acids and having a molecular mass of 17.3 kDa.

Source:	S. Lividans
Molecular Weight:	17.3 kDa
Purity:	> 98% (SDS-PAGE; HPLC)
Endotoxin level:	< 0.1 ng/μg of TNF-alpha
Buffer:	50mM Tris-Cl, pH 8.0, 20mM NaCl
Formulation:	lyophilized (freeze-dried)

Biological Activity: The ED₅₀ as determined by the cytolysis of murine L929 cells in the presence of Actinomycin D is < 0.05ng/ml, corresponding to a specific activity of 9x10⁸ IU/mg.

Reconstitution: It is recommended to reconstitute the lyophilized TNF-alpha in sterile H₂O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.

Stability: Lyophilized TNF-alpha although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution TNF-alpha should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). **Avoid repeated freeze-thaw cycles.**

Usage: Mouse TNF-alpha is offered for research use. Not for drug use. **Not for human use.**

Catalogue number: M10-041SL

Size: 20 μg

**** please note: always centrifuge product before opening vial ****