Rev06
Update: Aug,20,2025

DATASHEET

TNF-α, Mouse

Cat. No.: Z02774

Product Introduction

Species	Mouse
Protein Construction	Expressed with an N-terminal Met. **TNF-α (Leu80-Leu235)** **Accession # P06804**
Purity	> 98% as analyzed by SDS-PAGE > 98% as analyzed by HPLC
Endotoxin Level	< 1 EU/μg of protein by LAL method
Biological Activity	Fully biologically active when compared to standard. The ED_{50} as determined by a cytotoxicity assay using murine L929 cells is less than 0.1 ng/ml, corresponding to a specific activity of > 1.0×10^7 IU/mg in the presence of actinomycin D.
Expression System	E. coli
Theoretical Molecular Weight	17.4 kDa
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS, pH 7.2.
Reconstitution	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/ml.
Storage & Stability	Upon receiving, this product remains stable for 6 months at -70°C or -20°C. Upon reconstitution, the product should be stable for 1 week at 4°C or for 3 months at -20°C. Avoid repeated freeze-thaw cycles.

Background

Target Background : Tumor necrosis factor alpha (TNF-α) is produced by neutrophils, activated lymphocytes, macrophages, NK cells, LAK cells, astrocytes endothelial cells, smooth muscle cells and some transformed cells. Mouse TNF-α occurs as a membrane-anchored form. The naturally-occurring form of TNF-α is glycosylated, but non-glycosylated recombinant TNF-α has comparable biological activity. The biologically active native form of TNF-α is reportedly a trimer. Human and mouse TNF-α show approximately 79% homology at the amino acid level and crossreactivity between the two species.

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

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For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.

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