
Product Data Sheet

Product Name: TNF α Rhesus Macaque
 Cat. No.: GP20975
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Tumor necrosis factor; Cachectin; TNF- α ; Tumor necrosis factor ligand superfamily member 2; TNF- α ; TNF; TNFA; TNFSF2.		
Amino Acid Sequence	VRSSRTPSD KPVAHVVANP QAEGQLQWLN RRANALLANG VELTDNQLVV PSEGLYLIYS QVLFKGQGCP SNHVLLTHTI SRIAVSYQTK VNLLSAIKSP CQRETPEGAE AKPWYEPIYL GGVFQLEKGD RLSAEINLPD YLDFAESGQV YFGIIAL.		
Solubility	It is recommended to reconstitute the lyophilized Tumor Necrosis Factor- α in sterile 18M-cm H ₂ O not less than 100 μ g/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a 0.2 μ m filtered concentrated solution in PBS, pH 7.4 and 5% trehalose.		

Introduction

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.

Biological Activity

The ED₅₀ as determined by a cytotoxicity assay using murine L929 cells is less than 0.05 ng/ml, corresponding to a specific activity of > 2.0 6^{-1} 10⁷ IU/mg in the presence of actinomycin D.

Caution: Product has not been fully validated for medical applications. For research use only.

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Stability

Lyophilized Tumor Necrosis Factor- α although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution TNF- α 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). Please prevent freeze-thaw cycles.

Background

TNF- α Rhesus Macaque Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 157 amino acids and having a molecular mass of 17.3kDa. The TNFA Rhesus Macaque is purified by proprietary chromatographic techniques.

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