
Product Data Sheet

Product Name: TNF α Human, Sf9
 Cat. No.: GP20967
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Tumor Necrosis Factor; TNFA; Tumor Necrosis Factor Ligand Superfamily Member 2; Cachectin; TNF-Alpha; TNFSF2; TNF-A; Tumor Necrosis Factor (TNF Superfamily; Member 2); Tumor Necrosis Factor-Alpha; TNF; Macrophage-Derived; TNF; Monocyte-Derived; TNF Superfamily; APC1 Protein; Member 2; DIF; Tumor necrosis factor.		
Amino Acid Sequence	VRSSSRTPSD KPVAHVVANP QAEGQLQWLN RRANALLANG VELRDNQLVVPSEGLYLIYS QVLFKGGQCP STHVLLTHTI SRIAVSYQTK VNLLSAIKSP CQRETPEGAE AKPWYEPIYLGGVFQLEKGD RLSAEINRPD YLDFAESGQV YFGIILHHH HHH.		
Formulation	TNF α protein solution (1mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.		

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

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 6 \pm 0.2 ng/ml.

Stability

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

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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). Please avoid freeze thaw cycles.

Background

TNF α produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 163 amino acids (77-233a.a.) and having a molecular mass of 18.1kDa. (Molecular size on SDS-PAGE will appear at approximately 18-28kDa). TNF α is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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