
Product Data Sheet

Product Name: TNF α Rat
 Cat. No.: GP20970
 Batch No.: 1

Product Data

Purity	>98%	Source	Rat
Physical Appearance	solid	Shipping Condition	Shipped at -20°C.
Synonyms	TNF- α ; Tumor necrosis factor ligand superfamily member 2; TNF- α ; Cachectin; DIF; TNFA; TNFSF2.		
Amino Acid Sequence	MLRSSSQNSS DKPVVHVVAN HQAEEQLEWL SQRANALLAN GMDLKDNQLV VPADGLYLIY SQVLFKGQGC PDYVLLTHTV SRFATSYQEK VSLLSAIKSP CPKDTPEGAE LKPWYEPMYL GGVSQLEKGD LLSAEVNLPK YLDITESGQV YFGVIAL.		
Formulation	Lyophilized after extensive dialysis against PBS.		

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, and cancer.

Biological Activity

ED₅₀ < 50.0 pg/ml, measured in a cytotoxicity assay using mouse L-929 cells in the presence of actinomycin D, corresponding to a specific activity of > 2.0 × 10⁷ U/mg.

Stability

Upon receiving, this product remains stable for 6 months at lower than -70°C. Upon reconstitution, the product should be stable for 1 week at 4°C or for 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be

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added. Avoid repeated freeze-thaw cycles.

Background

Tumor Necrosis Factor- α Rat Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 157 amino acids and having a molecular mass of 17339.44 Dalton. The TNF- α is purified by standard chromatographic techniques.

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