
Product Data Sheet

Product Name: TNFA Bovine
 Cat. No.: GP20976
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	TNF-alpha; Tumor necrosis factor ligand superfamily member 2; TNF-a; Cachectin; DIF; TNFA; TNFSF2.		
Amino Acid Sequence	MLRSSSQASS NKPVAHVAD INSPGQLRWW DSYANALMAN GVKLEDNQLV VPADGLYLIY SQVLFGRGQC PSTPLFLTHT ISRIAVSYQT KVNILSAIKS PCHRETPEWA EAKPWYEPIY QGGVFQLEKG DRLSAEINLP DYLDYAESGQ VYFGIIAL.		
Formulation	The TNFA (1mg/ml) contains Phosphate buffer saline(pH7.4) and 10% glycerol.		

Introduction

Tumor necrosis factor is a member of a group of cytokines that all stimulate the acute phase reaction. TNF is involved in systemic inflammation and secreted mainly 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 is < 15 ng/ml and is measured in a cytotoxicity assay using L929 mouse fibrosarcoma cells in the presence of the metabolic inhibitor actinomycin D.

Stability

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%

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

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HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

TNFA Bovine produced in E.Coli is a single, non-glycosylated polypeptide chain containing 158 amino acids (78-234 a.a.) and having a molecular mass of 17.5kDa. TNFA is purified by proprietary chromatographic techniques.

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