Product Data Sheet

Product Name:	TNF a Human, His
Cat. No.:	GP20965
Batch No.:	1

Product Data

Purity	>98%	Source	Escherichia Coli.
Phycical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	TNF-alpha; Tumor necrosis factor ligand superfamily member 2; TNF-a; Cachectin; DIF; TNFA; TNFSF2.		
Solubility	It is recommended to reconstitute the lyophilized TNF-ж⊥ in sterile 18M-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	TNF-a His is supplied in 1xPBS.		

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

EC50 0.200-0.120ng/ml measured in a metabolic inhibitor actinomycin D assay using L-cells (ATCC CCL-1).

Stability

Lyophilized TNF-a although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution TNF-a 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.

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Background

Tumor Necrosis Factor-a Human Recombinant His produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 157 amino acids fragment (77-233) and having a molecular mass of 18.3kDa with an amino-terminal hexahistidine tag. The TNF-alpha His is purified by standard chromatographic techniques.

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