9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

TNF a Human, His

Tumor Necrosis Factor-Alpha Human Recombinant, His Tag
CYK0550

Product Overview

Name	TNF a Human, His
Description	
Tumor Necrosis Factor-Alpha Human Recombinant, His Tag	
Accession (Primary)	P01375
Synonyms	
TNF-alpha, Tumor necrosis factor ligand superfamily member 2, TNF-a, Cachectin, DIF, TNFA, TNFSF2.	
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
Lyophilized from a 0.2 μm filtered concentrated solution in PBS, pH 7.0.	
Stability	
Lyophilized TNF-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.	
Purity	
Greater than 97.0% as determined by SDS-PAGE and HPLC analyses.	
Amino acid sequence	
MHHHHHH VRS SSRTPSDKPV AHVVANPQAE GQLQWLNRRA NALLANGVEL RDNQLVVPSE GLYLIYSQVL FKGQGCPSTH VLLTHTISRI AVSYQTKVNL LSAIKSPCQR ETPEGAEAKP WYEPIYLGGV FQLEKGDRLS	

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AEINRPDYLD FAESGQVYFG IIAL.

Biological Activity

The ED50 was determined in the presence of actinomycin D by a cytotoxicity assay using murine L929 cells is 2.0 × 107IU/mg.

Solubility

It is recommended to reconstitute the lyophilized TNF-α in sterile 18MΩ-cm H 2 O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

TNF a Human, His is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P01375)