9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
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TNF a Rhesus Macaque

Tumor Necrosis Factor-Alpha Rhesus Macaque Recombinant
CYK0557

Product Overview

Name	TNF a Rhesus Macaque
Description	
Tumor Necrosis Factor-Alpha Rhesus Macaque Recombinant	
Accession (Primary)	P48094
Synonyms	
Tumor necrosis factor, Cachectin, TNF-alpha, Tumor necrosis factor ligand superfamily member 2, TNF-a, TNF, 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 7.4 and 5% trehalose.	
Stability	
Lyophilized Tumor Necrosis Factor-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.	
Purity	
Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.	
Amino acid sequence	

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VRSSSRTPSD KPVAHVVANP QAEGQLQWLN RRANALLANG VELTDNQLVV PSEGLYLIYS QVLFKGQGCP SNHVLLTHTI SRIAVSYQTK VNLLSAIKSP CQRETPEGAE AKPWYEPIYL GGVFQLEKGD RLSAEINLPD YLDFAESGQV YFGIIAL.

Biological Activity

The ED 50 as determined by a cytotoxicity assay using murine L929 cells is less than 0.05 ng/ml, corresponding to a specific activity of > 2.0 × 10 7 IU/mg in the presence of actinomycin D.

Solubility

It is recommended to reconstitute the lyophilized Tumor Necrosis Factor-alpha in sterile 18M-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

TNF a Rhesus Macaque is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P48094)