9051 Mira Mesa Blvd, #910094
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Tel: 760-390-3989

# TNF a Rat

*Tumor Necrosis Factor-Alpha Rat Recombinant*
*CYK0555*

## Product Overview

| | |
|---|---|
| Name | TNF a Rat |
| **Description** | |
| Tumor Necrosis Factor-Alpha Rat Recombinant | |
| Accession (Primary) | P16599 |
| **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, and cancer. | |
| **Source** | |
| Escherichia Coli. | |
| **Physical Appearance** | |
| Sterile Filtered White lyophilized (freeze-dried) powder. | |
| **Formulation** | |
| The concentrated protein solution (1mg/ml) was lyophilized from 20mM phosphate buffer and 0.1M NaCl. | |
| **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 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE. | |
| **Amino acid sequence** | |
| MLRSSSQNSS DKPVVHVVAN HQAEEQLEWL SQRANALLAN GMDLKDNQLV VPADGLYLIY SQVLFKGQGC PDYVLLTHTV SRFATSYQEK VSLLSAIKSP CPKDTPEGAE LKPWYEPMYL GGVSQLEKGD LLSAEVNLPK | |

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YLDITESGQV YFGVIAL.

**Biological Activity**

The ED50 as determined by the cytolysis of murine L929 cells in the presence of Actinomycin D is < 0.05ng/ml, corresponding to a Specific Activity of 20,000,000 IU/mg.

**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 Rat is for research use only and not for use in diagnostic or therapeutic procedures.

## Target Information: ( P16599 )