

TNF a Mouse

Description: Tumor Necrosis Factor- α Mouse Recombinant produced in *E. coli* is a single, non glycosylated, polypeptide chain containing 157 amino acids and having a molecular mass of 17301.32 Dalton. The TNF- α is purified by standard chromatographic techniques.

Synonyms: TNF- α , Tumor necrosis factor ligand superfamily member 2, TNF- α , Cachectin, DIF, TNFA, TNFSF2.

Source: *Escherichia Coli*.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Amino Acid Sequence: MLRSSSQNSS DKPVAHVVAN HQVEEQLEWL SQRANALLAN
GMDLKDNLV VPADGLYLVY SQVLFKGGQC PDYVLLTHTV SRFAISYQEK VNLLSAVKSP
CPKDTPEGAE LKPWYEPIYL GGVFQLEKGD QLSAEVNLPK YLDFAESGQV YFGVIAL

Purity: Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (c) Analysis by SDS-PAGE.

Formulation:

Lyophilized from a 0.2

Stability:

Lyophilized Tumor Necrosis Factor- 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.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:

It is recommended to reconstitute the lyophilized Tumor Necrosis Factor- α in sterile 18M-cm H₂O not less than 100

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:

The ED50 as determined by the cytolysis of murine L929 cells in the presence of Actinomycin D is < 0.1ng/ml, corresponding to a Specific Activity of 10,000,000 Units/mg.

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References:

Title: PUMA is directly activated by NF- κ B and contributes to TNF--induced apoptosis. Publication: Received 13 October 2008; Revised 3 April 2009; Accepted 3 April 2009; Published online 15 May 2009. Link: <http://www.nature.com/cdd/journal/v16/n9/full/cdd200951a.html>

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