

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant Murine Tumor Necrosis Factor-alpha (rMuTNF- α)

Catalog Number: PR2036

Source: Escherichia coli.

Quantity: 5 μ g/20 μ g/1.0mg

Description

Tumor necrosis factor alpha (TNF- α) is produced by neutrophils, activated lymphocytes, macrophages, NK cells, LAK cells, astrocytes endothelial cells, smooth muscle cells and some transformed cells. Mouse TNF- α occurs as a membrane-anchored form. The naturally-occurring form of TNF- α is glycosylated, but non-glycosylated recombinant TNF- α has comparable biological activity. The biologically active native form of TNF- α is reportedly a trimer. Human and murine TNF- α show approximately 79% homology at the amino acid level and crossreactivity between the two species.

Molecular Weight:

Approximately 17.3 kDa. The recombinant murine TNF-alpha is a soluble 157 amino acid protein which corresponds to C-terminal extracellular domain of the full length trans-membrane protein.

Purity:

>97% by SDS-PAGE and HPLC analyses.

Biological Activity:

Fully biologically active when compared to standard. The ED50 as determined by the cytolysis of murine L929 cells in the presence of actinomycin D is < 0.1 ng/ml, corresponding to a specific activity of > 1 \times 10⁷ units/mg.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized from a 0.2mm filtered solution in PBS, pH 7.2.

AA Sequence:

M L R S S S Q N S S D K P V A H V V A N H Q V E E Q
L E W L S Q R A N A L L A N G M D L K D N Q L V V P
A D G L Y L V Y S Q V L F K G Q G C P D Y V L L T H
T V S R F A I S Y Q E K V N L L S A V K S P C P K D T P
E G A E L K P W Y E P I Y L G G V F Q L E K G D Q L S
A E V N L P K Y L D F A E S G Q V Y F G V I A L

Endotoxin:

Less than 1EU/mg of rMuTNF- α as determined by LAL method.

Reconstitution:

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at <-20°C. Further dilutions should be made in appropriate buffered solutions.

Storage:

This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. Avoid repeated freeze/thaw cycles.

Usage:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE. Made in China

MADE IN CHINA

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