

## **Bioworld Technology,Inc.**

## **Recombinant TNF-**α, Mouse (P. pastoris-expressed)

Catalog Number: BK0348-1mg

Source: P. pastoris

Quantity: 1mg

### **Description:**

Sharing 79% sequence identity with human Tumor Necrosis Factor-alpha (hTNF- $\alpha$ ), mouse Tumor Necrosis Factor-alpha (mTNF- $\alpha$ ) is a cytokine mainly expressed by immune cells [1]. A type II transmembrane protein, TNF- $\alpha$  is further proteolytically processed to a soluble form [2]. The trimeric active TNF- $\alpha$ [3] then exerts its diverse biological properties including gapoptosis, inflammation, autoimmunity and cell proliferation by binding to TNF Receptor 1 and 2 [4]. Recombinant mouse Tumor Necrosis Factor-alpha (rmTNF- $\alpha$ ) produced in P.pastoris is a fully biologically active polypeptide chain of 152 amino acids with a molecular mass of 17 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

### **Molecular Weight:**

17kDa, observed by reducing SDS-PAGE.

### **Purity:**

> 95% as analyzed by reducing SDS-PAGE.

**Biological Activity:** 

ED50<0.01ng/ml, measured by cytotoxicity assay using L929 cells, corresponding to a specific activity of >1 x 10^8units/mg.

### **Physical Appearance:**

Sterile Filtered White lyophilized (freeze-dried) powder.

# Formulation:

Lyophilized after extensive dialysis against PBS.

## AA Sequence:

SQNSSDKPVAH-VVANHQVEEQLEWLSQRANALLANGMDLKDN QLVVPADGLYL-VYSQVLFKGQGCPDYVLLTHTVSRFAI-SYQEKVNLLSAV-KSPCPKDTPEGAELKPWYEPIYL-GGVFQLEKGDQLSAEVNLPKYLDFAESGQVYFG VIAL

#### **Endotoxin:**

 $<1 \text{ EU/}\mu g$ , determined by LAL method.

# Reconstituted in ddH2O or PBS at 100 µg/ml.

**Reconstitution:** 

Storage:

Lyophilized recombinant mouse Tumor Necrosis Factor-alpha (rmTNF- $\alpha$ ) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rmTNF- $\alpha$  should be stable up to 1 week at 4°C or up to 2 months at -20 °C.

### Usage:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. For research use only.