

# PRODUCT DATA SHEET



Bioworld Technology, Inc.

## Recombinant TNF- $\alpha$ , Rhesus Macaque

Catalog Number: BK0173-50 $\mu$ g

Source: Escherichia coli.

Quantity: 50 $\mu$ g

### Description:

Tumor Necrosis Factor-Alpha (TNF- $\alpha$ ) plays a major role in regulating growth, differentiation, inflammation, viral replication, tumorigenesis, and autoimmune disease. TNF alpha-1a is a potent lymphoid factor that exerts cytotoxic effects on a wide range of tumor cells. In addition to inducing hemorrhagic necrosis of tumors, studies indicate TNF is involved in certain types of tumorigenesis, tumor metastasis, viral replication, septic shock, fever, inflammation, Crohn's disease, rheumatoid arthritis and graft-versus-host disease. Recombinant Rhesus Macaque TNF- $\alpha$  produced in E.coli is a single, non-glycosylated polypeptide chain containing 157 amino acids. A fully biologically active molecule, Recombinant Rhesus Macaque TNF- $\alpha$  has a molecular mass of 17.4 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

### Molecular Weight:

17.4 kDa, observed by reducing SDS-PAGE.

### Purity:

> 95% as analyzed by SDS-PAGE & HPLC

### Biological Activity:

ED50 < 60 pg/ml, measured in a cytotoxicity assay using mouse L-929 cells in the presence of actinomycin D, corresponding to a specific activity of > 1.6  $\times$  10<sup>7</sup> units/mg.

### Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

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### Formulation:

Lyophilized after extensive dialysis against PBS

### AA Sequence:

VRSSSRTPSDKPVAVHVVANPQAEGLQWLNR-  
RANALLANGVELT-  
DNQLVVPSEGLYLIYSQVLFKGGQCP-  
SNHVLLTHTISRIAVSYQTKVNLLSAIKSPCQRET  
PEGAEAKPWYEPIYLGGVFQLEKG-  
DRLSAEINLPDYLDFAESGQVYFGIHAL

### Endotoxin:

< 0.2 EU/ $\mu$ g, determined by LAL method.

### Reconstitution:

Reconstituted in ddH<sub>2</sub>O at 100  $\mu$ g/ml.

### Storage:

Lyophilized recombinant Rhesus Macaque TNF- $\alpha$ , remains stable up to 6 months at -80  $^{\circ}$ C from date of receipt. Upon reconstitution, Rhesus Macaque TNF- $\alpha$  should be stable up to 1 week at 4  $^{\circ}$ C or up to 3 months at -20  $^{\circ}$ C.

### Usage:

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