Leinco Technologies, Inc.
*excellence in early discovery research™*

# Mouse TNF-α
## *Recombinant Protein*

### Product Information
**Product No.:** T156
**Storage:** -20 to -70 °C

## Product Description
### Antigen Distribution:
TNF-α is secreted by macrophages, monocytes, neutrophils, T cells, B cells, NK cells, LAK cells.

### Background:
TNF-α is a 17.5 kD protein that mediates inflammation and immunity caused by the invasion of viruses, bacteria, and parasites by initiating a cascade of cytokines that increase vascular permeability, thus bringing macrophages and neutrophils to the site of infection. TNF-α secreted by the macrophage causes the blood to clot which provides containment of the infection. TNF-α binding to surface receptors brings about various biologic activities that include cytolysis and cytostasis of many tumor cell lines In vitro, hemorraghic necrosis of tumors In vivo, increased fibroblast proliferation, and enhanced chemotaxis and phagocytosis in neutrophils.

### Known Reactivity Species:
Mouse

### Expression Host:
E. coli Cells

### Formulation
This recombinant protein was 0.2 µm filtered and lyophilized from modified Dulbecco's phosphate buffered saline (1X PBS) pH 7.2 – 7.3 with no calcium, magnesium, or preservatives.

### Purity
>97% by SDS-PAGE and analyzed by silver stain.

### Endotoxin
<0.01 EU/µg as determined by the LAL method

### Storage and Stability
This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. **Avoid Repeated Freeze Thaw Cycles**.

### Country of Origin
USA

### References
1) El-Harith, EHA. et al. (2004) Saudi Med J. 25: 135
2) Adolf, GR. et al. (1990) Infec Immun. 58: 3996


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