

## Animal-Free Recombinant Human TNF-a

Catalog # PBG10534

# **Specification**

## Animal-Free Recombinant Human TNF-α - Product Information

## Animal-Free Recombinant Human TNF-α - Additional Information

# **Description**

TNF- $\alpha$  is a pleiotropic pro-inflammatory cytokine secreted by various cells including adipocytes, activated monocytes, macrophages, B cells, T cells and fibroblasts. It belongs to the TNF family of ligands and signals through two receptors, TNFR1 and TNFR2. TNF- $\alpha$  is cytotoxic to a wide variety of tumor cells and is an essential factor in mediating the immune response against bacterial infections. TNF- $\alpha$  also plays a role in the induction of septic shock, auto immune diseases, rheumatoid arthritis, inflammation, and diabetes. Recombinant human TNF- $\alpha$  is a soluble 157 amino acid protein (17.4 kDa) which corresponds to C-terminal extracellular domain of the full length transmembrane protein.

## **Biological**Activity

The <strong>ED</strong><sub>50</sub> as determined by the cytolysis of murine L929 cells in the presence of Actinomycin D is  $\leq 0.05$  ng/ml, corresponding to a specific activity of  $\geq 2$  x 10<sup>7</sup> units/mg.

#### **Authenticity**

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

#### **Endotoxin**

Endotoxin level is  $<0.1 \text{ ng}/\mu\text{g}$  of protein ( $<1\text{EU}/\mu\text{g}$ ).

#### **Protein Content**

Verified by UV Spectroscopy and/or SDS-PAGE gel.

## Storage

-20°C

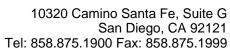
# **Precautions**

Animal-Free Recombinant Human TNF- $\alpha$  is for research use only and not for use in diagnostic or therapeutic procedures.

# Animal-Free Recombinant Human TNF-α - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence





- Immunoprecipitation
- Flow CytometyCell Culture

Animal-Free Recombinant Human TNF-α - Images