

## Human TNF Alpha, His Tag, E. coli

<b>Catalog Number</b>	LDG048PHE
<b>Package</b>	5 µg / 20 µg / 100 µg / Customized package

For full product information, images and publications, please visit [our website](#).



### Specifications

#### Species of Origin

Human

#### Expression System

Escherichia coli

#### Affinity Tag

His Tag (C-term)

#### Storage Buffer

Lyophilized from a 0.2 µm filtered solution of 500 mM NaCl PBS, pH 7.4.

#### Purity

>97% as determined by SDS-PAGE analysis.

#### Molecular weight

The protein has a calculated MW of 18.3 kDa. The protein migrates as 17 kDa under reducing condition (SDS-PAGE analysis).

#### Activity

Measure by its ability to induce cytotoxicity in L929 cells in the presence of actinomycin D. The ED<sub>50</sub> for this effect is < 0.1 ng/mL. The specific activity of recombinant human TNF alpha is approximately  $\geq 1 \times 10^7$  IU/mg.

#### Endotoxin Level

<0.1 EU per 1 µg of the protein by the LAL method.

#### Form

Lyophilized

### Background

#### Tainan Headquarters

+886-6-2536677

bd@leadgene.com.tw

#### Innovation & Research Center

+886-2-27065528

#### CLD Center

+886-6-2536677

### Background

Tumor necrosis factor alpha (TNF alpha) stimulates the acute phase of the immune response. In response to a pathogen, TNF alpha is one of the first to be released and can apply its effects in many organs. TNF alpha stimulates the release of corticotrophic releasing hormone, suppresses appetite, and induces fever, in the hypothalamus. TNF increase vasodilation and loss of vascular permeability, it helps recruit lymphocyte, neutrophil, and monocyte to the inflammation site by regulating chemokine release.

### Uniprot ID

#P01375

### Synonyms

Tumor necrosis factor, Cachectin, Tumor necrosis factor ligand superfamily member 2 , TNF-a

### Sequence Note

Val77-Leu233

## Instruction

### Reconstitution

It is recommended to reconstitute the lyophilized protein in sterile H<sub>2</sub>O to a concentration of 200 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

### Stability & Storage

This product is stable after storage at:

- -20°C for 12 months in lyophilized state from date of receipt.
- -20°C or -80°C for 1 month under sterile conditions after reconstitution.

Avoid repeated freeze/thaw cycles.

### Shipping

The product is shipped with polar packs. Upon receipt, store it immediately at -20°C or lower for long term storage.

## Image

### Tainan Headquarters

+886-6-2536677

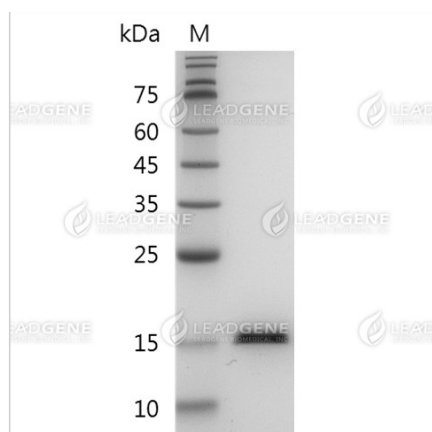
bd@leadgene.com.tw

### Innovation & Research Center

+886-2-27065528

### CLD Center

+886-6-2536677



SDS-PAGE analysis of recombinant human TNF alpha.

**Disclaimer :** For Research Use or Further Manufacturing Only.