

RP00748

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# Recombinant Rat TNF-alpha/TNF $\alpha$ /TNFSF2 Protein

Catalog No.: RP00748

Recombinant

## Sequence Information

Species	Gene ID	Swiss Prot
Rat		P16599

### Tags

No tag

### Synonyms

Tumor Necrosis Factor; Cachectin; TNF-Alpha; Tumor Necrosis Factor Ligand Superfamily Member2; TNF-a; Tumor Necrosis Factor; Membrane Form; Tumor Necrosis Factor; Soluble Form; Tnf;Tnfa; Tnfsf2

## Product Information

Source	Purification
<I>E. coli</I>	> 95% by SDS-PAGE.

### Endotoxin

< 1 EU/ $\mu$ g of the protein by LAL method.

### Formulation

Lyophilized from a 0.2  $\mu$ m filtered solution of PBS, pH7.4. Contact us for customized product form or formulation.

### Reconstitution

Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.

## Background

Tumor necrosis factor alpha (TNF-alpha, TNFSF2) is the prototypic ligand of the TNF superfamily. Rat TNF-alpha consists of a 35 amino acid (aa) cytoplasmic domain, a 21 aa transmembrane segment, and a 179 aa extracellular domain (ECD). Within the ECD, rat TNF-alpha shares 94% aa sequence identity with mouse. TNF-alpha is produced by a wide variety of immune, epithelial, endothelial, and tumor cells. TNF exists as a homotrimer and interacts with SPPL2B. TNF is mainly secreted by macrophages and can induce cell death of certain tumor cell lines. TNF is a key cytokine in the development of several inflammatory disorders. It contributes to the development of type 2 diabetes through its effects on insulin resistance and fatty acid metabolism.

## Basic Information

### Description

Recombinant Rat TNF-alpha/TNF $\alpha$ /TNFSF2 Protein is produced by <I>E. coli</I> expression system. The target protein is expressed with sequence (Leu80-Leu235) of rat TNF-alpha/TNF $\alpha$ /TNFSF2 (Accession #P16599) fused with an initial Met at the N-terminus.

### Bio-Activity

### Storage

Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. Avoid repeated freeze/thaw cycles.

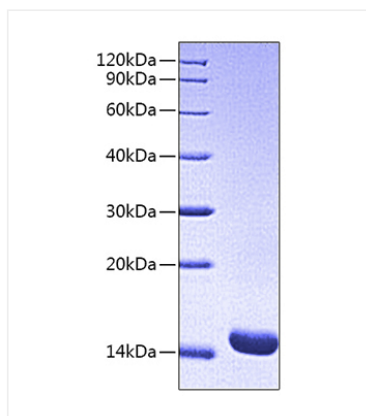
## Contact



[www.abclonal.com](http://www.abclonal.com)

## Validation Data

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Recombinant Rat TNF-alpha/TNF $\alpha$ /TNFSF2 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.