

## Active Recombinant Swine Tumor Necrosis Factor (TNF Superfamily, Member 2)

Cat. No. TNF-369S Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Swine TNF- $\alpha$  was expressed in *Yeast*. MW= 16.9 kDa (154 aa).

**Species** Pig

**Source** Yeast

**Description** TNF- $\alpha$  is a homotrimer with a subunit molecular mass of 17 kDa and that it plays a major role in growth regulation, differentiation, inflammation, viral replication, tumorigenesis, and autoimmune diseases; and in viral, bacterial, fungal, and parasitic infections. Besides inducing hemorrhagic necrosis of tumors, TNF was found to be involved in tumorigenesis, tumor metastasis, viral replication, septic shock, fever, inflammation, and autoimmune diseases including Crohn's disease, and rheumatoid arthritis as well as graft-versus-host disease.

**Formulation/ Reconstitution** Lyophilized. Reconstitute with sterile phosphate-buffered saline containing at least 0.1% carrier protein.

**Purification** Ion-exchange chromatography.

**Purity** >95% as visualized by SDS-PAGE analysis.

**Amino Acid Sequence**  
 SSSQTSDKPV AHVVANVKAE GQLQWQSGYA NALLANGVKL KDNQLVVPTD  
 GLYLIYSQVL FRGQGCPSTN VFLTHTISR AVSYQTKVNL LSAIKSPCQR  
 ETPEGAEAKP WYEPIYLGCV FQLEKDDRLS AEINLPDYLD FAESGQVYFG IIAL.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

**Bioactivity** The biological activity of recombinant swine TNF alpha was measured in a cytotoxicity assay using L929 mouse fibrosarcoma cells. The ED50 for this effect is typically 1 3 ng/mL.

**Stability And Storage** Stable for up to twelve months from date of receipt at -20°C. Stable for at least 3 months when stored in working aliquots with a carrier protein at -20°C. Avoid repeated freeze/thaw cycles.

## GENE INFORMATION

**Gene Name** [TNF tumor necrosis factor \(TNF superfamily, member 2\) \[ Sus scrofa \]](#)

**Synonyms** tumor necrosis factor (TNF superfamily, member 2); TNF; TNFa; tumor necrosis factor; TNF-a; TNF-alpha; cachectin; tumor-necrosis factor; tumor necrosis factor alpha; tumor necrosis factor ligand superfamily member 2

**Gene ID** [397086](#)

**mRNA Refseq** [NM\\_214022.1](#)

**Protein Refseq** [NP\\_999187.1](#)

**Chromosome Location** 7p11-q11

**UniProt ID** [P23563](#)

**Pathway** Adipocytokine signaling pathway; Allograft rejection; Alzheimer"s disease; Amyotrophic lateral sclerosis (ALS); Apoptosis; Asthma; Cytokine-cytokine receptor interaction; Dilated cardiomyopathy; Fc epsilon RI signaling pathway; Graft-versus-host disease; Hematopoietic cell lineage; Hypertrophic cardiomyopathy (HCM); MAPK

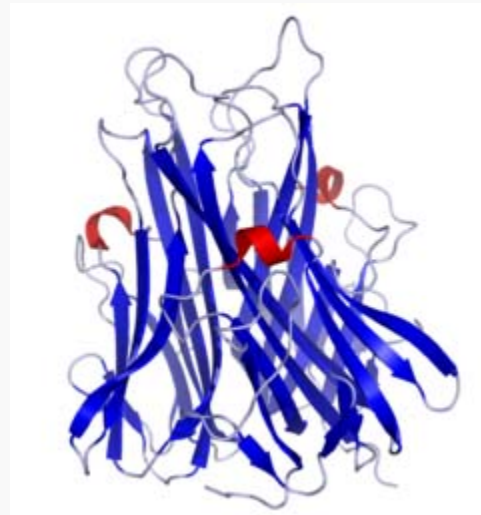
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signaling pathway; NOD-like receptor signaling pathway; Natural killer cell mediated cytotoxicity; RIG-I-like receptor signaling pathway; Systemic lupus erythematosus; T cell receptor signaling pathway; TGF-beta signaling pathway; Toll-like receptor signaling pathway; Type I diabetes mellitus; Type II diabetes mellitus

PDB rendering based  
on 1TNF.



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