

Active Recombinant Pig TNF protein, His-tagged

Cat. No. TNF-436P **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Pig TNF protein(P23563)(57~232 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Pig
Source	E.coli
ProteinLength	57-232 aa
Form	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	Tumor necrosis factor (TNF, tumor necrosis factor alpha, TNFα, cachexin, orcachectin) is a cell signaling protein (cytokine) involved in systemic inflammation and is one of the cytokines that make up the acute phase reaction. Theprimaryrole of TNF is in the regulation of immune cells. TNF, being an endogenouspyrogen, is able to induce fever, apoptotic cell death, cachexia, inflammation and to inhibit tumorigenesis and viral replication and respond to sepsis vialL1&IL6 producing cells. To test the effect of TNFα on cell apoptosis, A549 cells were seeded into 96-well plates at a density of 4,000 cells/well with 5% serum standard DMEM including various concentrations of recombinant pig TNFα. After incubated for 48h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10μof CCK-8 solution was added to each well of the plate, then the absorbance at 450 nm was measured using a microplate reader after

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incubating the plate for 1h at 37°C. Proliferation of A549 cells after incubation with TNFα for 72h observed by inverted microscope was shown. Cell viability was assessed by CCK-8 (Cell Counting Kit-8) assay after incubation with recombinant pig TNFα for 72h. It was obvious that TNFα significantly inhibit cell viability of A549 cells. The ED50 is 2.4 μg/mL.

Molecular Mass	22.9kDa
Endotoxin	<1.0EU per 1μg (determined by the LAL method).
Purity	> 90% as determined by SDS-PAGE.
Storage	Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	TNF tumor necrosis factor [<i>Sus scrofa</i>]
Official Symbol	TNF
Synonyms	TNF; tumor necrosis factor; TNF-α; TNF-alpha; cachectin; tumor-necrosis factor; tumor necrosis factor alpha; tumor necrosis factor (TNF superfamily, member 2); tumor necrosis factor ligand superfamily member 2; TNFα;
Gene ID	397086
mRNA Refseq	NM_214022

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Protein Refseq

NP_999187

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