

## Active Recombinant Pig LTA protein, His-tagged

Cat. No. LTA-5855P Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Active Recombinant Pig LTA protein(P26445)(53~172 aa), fused with N-terminal His tag, was expressed in E.coli.
<b>Species</b>	Pig
<b>Source</b>	E.coli
<b>ProteinLength</b>	53-172 aa
<b>Form</b>	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
<b>Bio-activity</b>	TNF- $\beta$ , a member of the tumor necrosis factor family, is a potent lymphoid factor that exerts cytotoxic effects on a wide range of tumor cells . The biological effects of TNF- $\beta$ are very similar to TNF- $\alpha$ ,due to the similarity of molecular structure and the receptors.As reported, TNF- $\alpha$ could inhibit the proliferation and induce apoptosis of A549 cells,therefore, A549 cells were seeded into triplicate wells of 96-well plates at a density of 4,000 cells/well with 5% serum standard DMEM including various concentrations of recombinant pig TNF- $\beta$ . After incubated for 48h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10 $\mu$ of CCK-8 solution was added to each well of the plate, then the absorbance at 450 nm was measured using a microplate reader after incubating the plate for 2 hours at 37°C. Proliferation of A549 cells after incubation with TNF- $\beta$ for 48h observed by inverted microscope was shown. Cell viability was

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assessed by CCK-8 (Cell Counting Kit-8 ) assay after incubation with recombinant pig TNF- $\beta$  for 48h. It was obvious that TNF- $\beta$  significantly inhibit cell viability of A549 cells. The ED50 is 3.5 $\mu$ g/ml.

<b>Molecular Mass</b>	16.7kDa
<b>Endotoxin</b>	<1.0EU per 1 $\mu$ g (determined by the LAL method).
<b>Purity</b>	> 90% as determined by SDS-PAGE.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
<b>Reconstitution</b>	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

## GENE INFORMATION

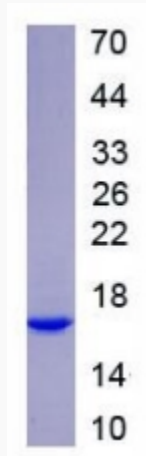
<b>Gene Name</b>	LTA lymphotoxin alpha (TNF superfamily, member 1) [ <i>Sus scrofa</i> ]
<b>Official Symbol</b>	LTA
<b>Synonyms</b>	LTA; lymphotoxin alpha (TNF superfamily, member 1); lymphotoxin-alpha; LT-alpha; TNF-beta; tumour necrosis factor beta; tumor necrosis factor ligand superfamily member 1; TNFB;
<b>Gene ID</b>	407742
<b>mRNA Refseq</b>	NM_214453
<b>Protein Refseq</b>	NP_999618

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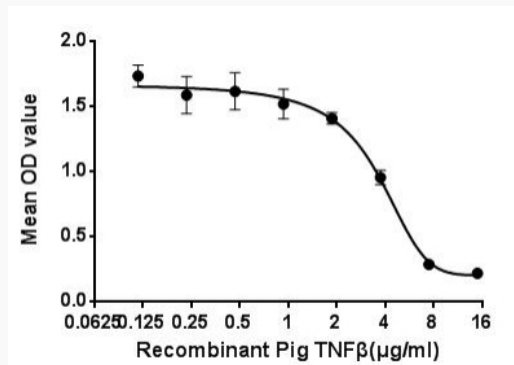
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SDS-PAGE



Activity



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