

Active Recombinant Pig LTA protein, His-tagged

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

SPECIFICATION

Product Overview	Active Recombinant Pig LTA protein(P26445)(53~172 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Pig
Source	E.coli
ProteinLength	53-172 aa
Form	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	TNF-β, 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-β are very similar to TNF-α,due to the similarity of molecular structure and the receptors.As reported, TNF-α 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-β. After incubated for 48h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10 μ 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-β 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- β for 48h. It was obvious that TNF- β significantly inhibit cell viability of A549 cells. The ED50 is 3.5 μ g/ml.

Molecular Mass 16.7kDa

Endotoxin <1.0EU per 1 μ g (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 LTA lymphotoxin alpha (TNF superfamily, member 1) [*Sus scrofa*]

Official Symbol LTA

Synonyms 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;

Gene ID 407742

mRNA Refseq NM_214453

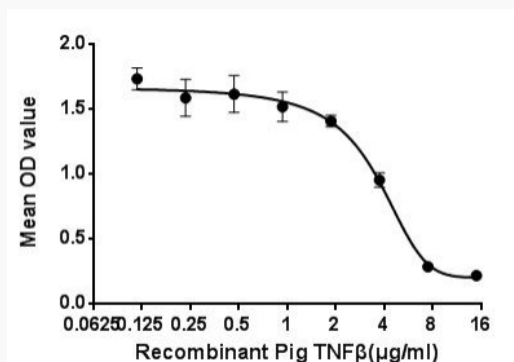
Protein Refseq NP_999618

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Activity



SDS-PAGE

