Active Recombinant Rat Lta protein, His-tagged

Cat. No. Lta-440R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Rat Lta protein(Q06332)(34~202 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Rat
Source	E.coli
ProteinLength	34-202 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 effectsof 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 induceapoptosis of A549 cells,therefore, A549 cells were seeded into triplicatewells of 96-well plates at a density of 4,000 cells/well with 5% serum standard DMEM including various concentrations of recombinant rat 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

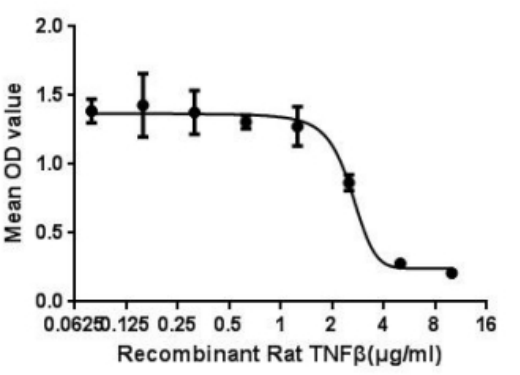
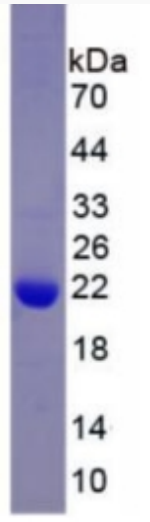
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	assessed by CCK-8(Cell Counting Kit-8) assay after incubation with recombinant mouse TNF-βfor 48h. It was obvious that TNF-β significantly inhibit cell viability of A549 cells. The ED50 is 2.5μg/ml.
Molecular Mass	22.4kDa
Endotoxin	<1.0EU per 1μg (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	Lta lymphotoxin alpha (TNF superfamily, member 1) [Rattus norvegicus]
Official Symbol	Lta
Synonyms	LTA; lymphotoxin alpha (TNF superfamily, member 1); lymphotoxin-alpha; LT-alpha; TNF-beta; lymphotoxin A; tumor necrosis factor beta; tumor necrosis factor ligand superfamily member 1; Tnfb;
Gene ID	25008
mRNA Refseq	NM_080769
Protein Refseq	NP_542947

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Activity	
SDS-PAGE	

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