

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 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 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

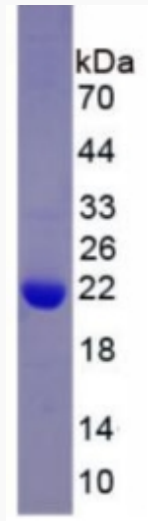
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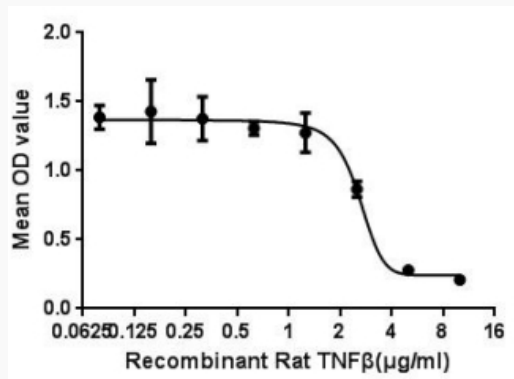
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SDS-PAGE



Activity



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