

Active Recombinant Chicken TNF protein, His-GST-tagged

Cat. No. TNF-5514C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Chicken TNF protein(AEW10516.1)(1~73 aa), fused with N-terminal His tag and GST tag, was expressed in E.coli.
Species	Chicken
Source	E.coli
ProteinLength	1-73 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. The primaryrole 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 triplicate wells of 96-well plates at a density of 4,000 cells/well and allowed to attach overnight, then the medium was replaced with various concentrations of recombinant chicken TNFα diluted with 5% serum standard DMEM. After incubated for 72h, 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

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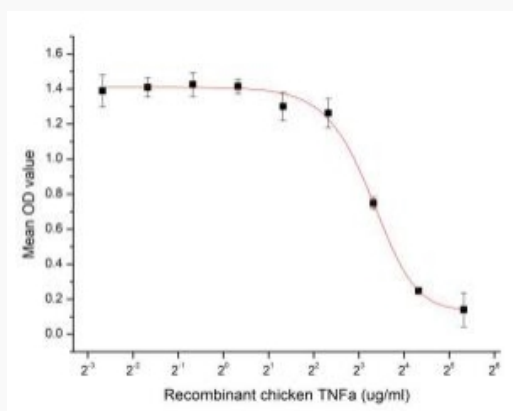
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plate, then the absorbance at 450nm was measured using a microplate reader after incubating the plate for 1h at 37°C. Proliferation of A549 cells after incubation with TNFα for 72h observed by inverted microscope was shown. Cell viability was assessed by CCK-8 (Cell Counting Kit-8) assay after incubation with recombinant chicken TNFα for 72h. It was obvious that TNFα significantly inhibit cell viability of A549 cells. The ED50 is 9.75μg/mL.

Molecular Mass	38.1kDa
Endotoxin	<1.0EU per 1μg (determined by the LAL method).
Purity	> 95% 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.

Activity

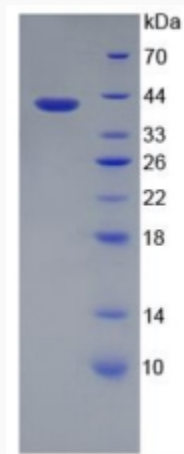


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SDS-PAGE



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