

## Active Recombinant Chicken TNF protein, His-GST-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Active Recombinant Chicken TNF protein(AEW10516.1)(1~73 aa), fused with N-terminal His tag and GST tag, was expressed in E.coli.
<b>Species</b>	Chicken
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-73 aa
<b>Form</b>	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
<b>Bio-activity</b>	<p>Tumor necrosis factor (TNF, tumor necrosis factor alpha, TNF<math>\alpha</math>, 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&amp;IL6 producing cells. To test the effect of TNF<math>\alpha</math> 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 TNF<math>\alpha</math> 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, 10<math>\mu</math>of CCK-8 solution was added to each well of the</p>

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

**Molecular Mass** 38.1kDa

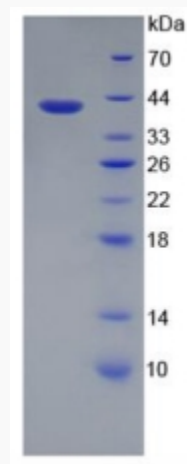
**Endotoxin** <1.0EU per 1µg (determined by the LAL method).

**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.

**SDS-PAGE**

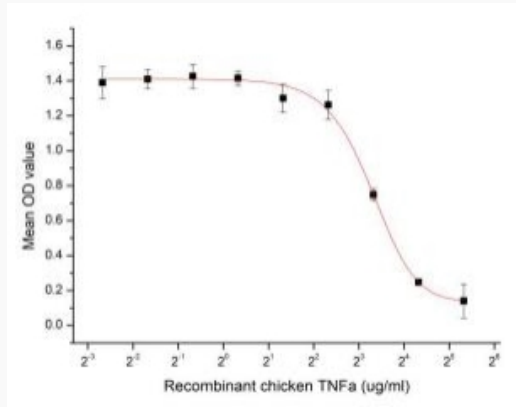


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**Activity**



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