

Active Recombinant Rabbit TNF protein, His-GST-tagged

Cat. No. TNF-4217R Lot. No. (See product label)

SPECIFICATION

Product Overview	Active Recombinant Rabbit TNF protein(P04924)(1~214 aa), fused with N-terminal His tag and GST tag, was expressed in E.coli.
Species	Rabbit
Source	E.coli
ProteinLength	1-214 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, TNF α , cachexin, orcachectin) is a cell signaling protein (cytokine) involved in systemic inflammationand 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, inflammationandto inhibit tumorigenes is and viral replication and respond to sepsis vialL1&IL6 producing cells. To test the effect of TNF α on cell apoptosis, A549 cells were seeded into 96-well plates at a density of 4,000 cells/well with 5% serum standard DMEM including various concentrations of recombinant rabbit TNF α . Afterincubated for 72h, 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 450nm was measured using a microplate reader after

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incubating the plate for 1hat 37°C. Proliferation of A549 cells after incubation with TNFα for 72h observed by invertedmicroscope was shown. Cell viability was assessed by CCK-8 (Cell Counting Kit-8) assay after incubationwith recombinant rabbit TNFα for 72h. It was obvious that TNFα significantly inhibit cell viability of A549 cells. The ED50 is 11.45µg/mL.

Molecular Mass	54.7kDa
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	TNF tumor necrosis factor [Oryctolagus cuniculus]
Official Symbol	TNF
Synonyms	TNF; tumor necrosis factor; TNF-a; TNF-alpha; cachectin; tumor necrosis factor alpha; tumor necrosis factor (TNF superfamily, member 2); tumor necrosis factor ligand superfamily member 2; TNFA; TNFSF2;
Gene ID	100009088
mRNA Refseq	NM_001082263

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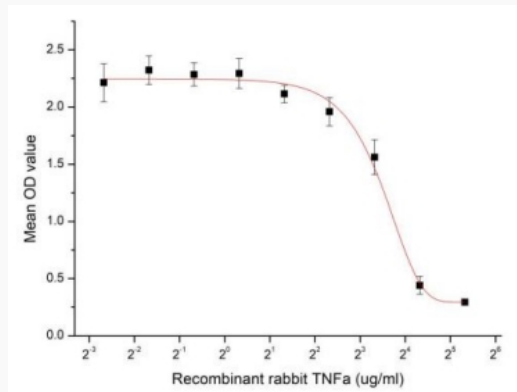
Protein Refseq

NP_001075732

SDS-PAGE



Activity



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