

Human TNF alpha protein, His tag (active)

Cat. No. GTX00102-pro

Application Functional Assay**Species** Human**Package**

10 µg

APPLICATION

Application Note

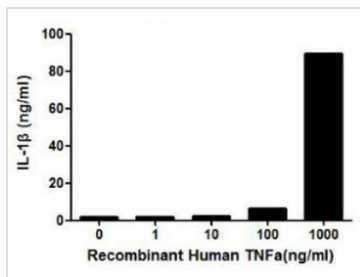
TNF- α (Tumor necrosis factor), is mainly secreted by macrophages and can induce cell death of certain tumor cell lines. It has been reported that TNF α can inhibit the proliferation and induce apoptosis of A549 cells, besides, the concentration of IL-1 β and IL-8 in cell supernatant will increase after stimulation. Therefore, a stimulation assay of TNF α was conducted using A549 cells. Briefly, A549 cells were incubated in DMEM with different concentrations of TNF α (1 ng/ml, 10 ng/ml, 100 ng/ml, 1000 ng/ml) for 8h, after which the concentration of IL-1 β in the cell supernatant were detected by ELISA. IL-1 β levels in the cell supernatant of A549 cells increased significantly after stimulation.

Observed MW 21 kDa.

PROPERTIES

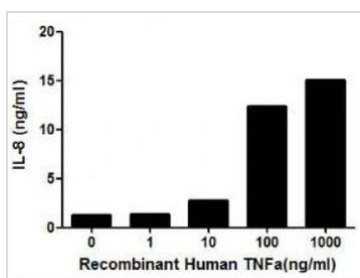
Form Lyophilized powder**Buffer** Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose.**Preservative** ProClin 300**Storage** For short-term storage (1-2 weeks), store at 4°C. For long-term storage, store at -20°C or below. After reconstitution, keep as concentrated solution. Avoid freeze-thaw cycles.**Region/Sequence** N-terminal His-Tag; Val77~Leu233 (NP_000585.2)**Expression System** E. coli**Purity** > 95%**Endotoxin** < 1 EU/µg**Conjugation** Unconjugated**Note** For laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

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DATA IMAGES

GTx00102-pro Functional Assay Image

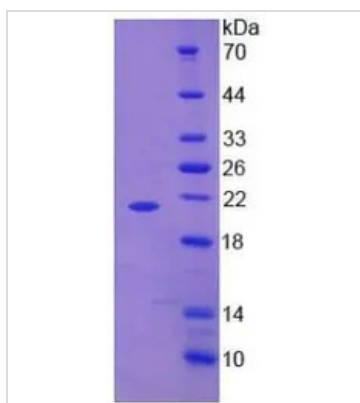
ELISA detection of secreted IL-1 beta activation from A549 cells induced by GTx00102-pro Human TNF alpha protein (active) for 8hrs.

Recombinant protein concentrations: 1, 10, 100, and 1000 ng/ml.

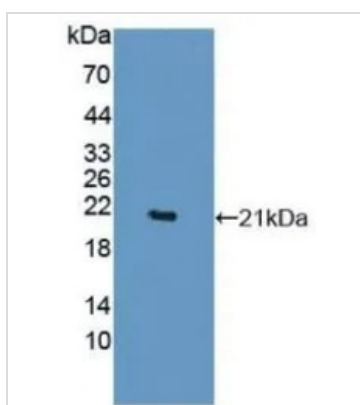

GTx00102-pro Functional Assay Image

ELISA detection of secreted IL-8 protein activation from A549 cells induced by GTx00102-pro Human TNF alpha protein (active) for 8hrs.

Recombinant protein concentrations: 1, 10, 100, and 1000 ng/ml.


GTx00102-pro Image

SDS-PAGE analysis of GTx00102-pro Human TNF alpha protein (active).


GTx00102-pro Image

WB analysis of GTx00102-pro Human TNF alpha protein (active).



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