

Mouse TNF alpha protein, His tag (active)

Cat. No. GTX00288-pro

Application Functional Assay

Species Mouse

Package

10 µg

APPLICATION

Application Note

TNF-α (Tumor necrosis factor), being an endogenous pyrogen, is able to induce fever, necrosis, inflammation and to inhibit tumorigenesis. As reported, TNF-α could inhibit the proliferation and induce necrosis of A549 cells, and the concentration of IL-1β in cell supernatant will increase after stimulation. Therefore, A549 cells were incubated in DMEM with TNFα (1 ng/ml, 10 ng/ml) for 2h, 4h, 8h, 24h, 48h, then cells were observed by inverted microscope. Cell necrosis after incubation with TNF-α (10 ng/ml) for 72h.

Observed MW 24 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; Gly57~Leu235 (NP_001265530.1)

Expression System HEK293 cells

Purity > 95%

Endotoxin < 1 EU/µg

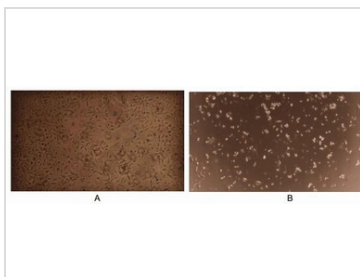
Conjugation Unconjugated

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



GTX00288-pro Functional Assay Image

Cell necrosis effect of GTX00288-pro Mouse TNF alpha protein (active).

(A) Unstimulated A549 cells cultured in DMEM for 72hrs.

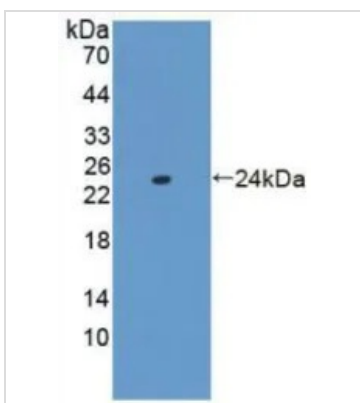
(B) A549 cells cultured in DMEM, stimulated with 10 ng/ml TNF alpha for 72hrs.

Effect of TNF- β on A549 cells by ELISA.

Sample (cell supernatant of A549 cells)	Concentration of IL-1 β (ng/ml)
Unstimulated	4.9
Stimulated with TNF- β (10 ng/ml)	52.0

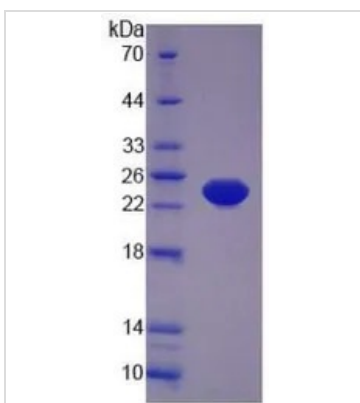
GTX00288-pro Functional Assay Image

ELISA detection of secreted IL-1 beta expression from A549 cells stimulated by GTX00288-pro Mouse TNF alpha protein (active) at 10 ng/ml for 8hrs.



GTX00288-pro Image

WB analysis of GTX00288-pro Mouse TNF alpha protein (active).



GTX00288-pro Image

SDS-PAGE analysis of GTX00288-pro Mouse TNF alpha protein (active).



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