

Mouse TNF alpha protein, His tag (active)

Cat. No. GTX00287-pro

Applications Functional Assay

Species Mouse

Package

10 µg

Applications

Application Note

TNF-α (Tumor necrosis factor), being an endogenous pyrogen, is able to induce fever, apoptotic cell death, inflammation and inhibit tumorigenesis. As reported, TNFα could inhibit the proliferation and induce apoptosis of A549 cells, and the concentration of IL-1β in cell supernatant will increase after stimulation. 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.

Observed MW (kDa) 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; Leu80~Leu235 (NP_001265530.1)

Expression System E. coli

Purity > 95%

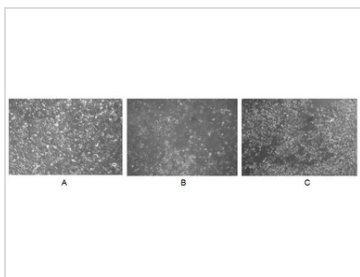
Endotoxin < 1 EU/µg

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

GTX00287-pro Functional Assay Image

The apoptosis effect of GTX00287-pro Mouse TNF alpha protein (active).

(A) A549 cells cultured in DMEM for 48hrs.

(B) A549 cells cultured in DMEM, stimulated with 1 ng/ml TNF alpha for 48hrs.

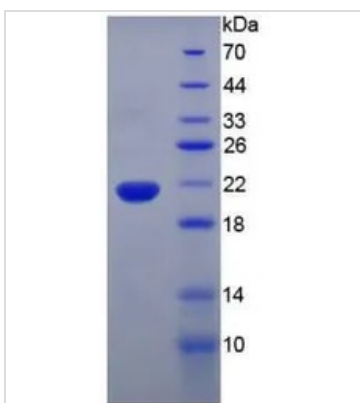
(C) A549 cells cultured in DMEM, stimulated with 10 ng/ml TNF alpha for 48hrs.

ELISA detection of IL-1 β expression from A549 cells by TNF α .

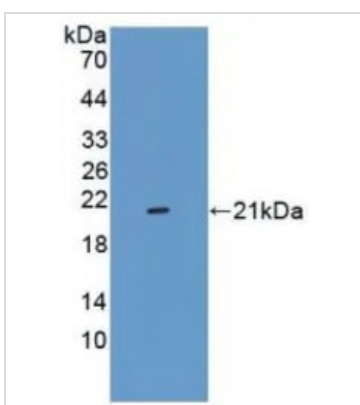
Sample (cell supernatant of A549 cells)	Concentration of IL-1 β (ng/ml)
Unstimulated	1.344
Stimulated with TNF α (1 ng/ml)	9.304
Stimulated with TNF α (10 ng/ml)	29.064

GTX00287-pro Functional Assay Image

ELISA detection of secreted IL-1 beta expression from A549 cells stimulated by GTX00287-pro Mouse TNF alpha protein (active) at 1 ng/ml or 10 ng/ml for 48hrs.


GTX00287-pro Image

SDS-PAGE analysis of GTX00287-pro Mouse TNF alpha protein (active).


GTX00287-pro Image

WB analysis of GTX00287-pro Mouse TNF alpha protein (active).



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