

Mouse TNF alpha protein, His tag (active)

Cat. No. GTX00287-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, apoptotic cell death, inflammation and inhibit tumorigenesis. As reported, TNF α could inhibit the proliferation and induce apoptosis of A549 cells, and the concentration of IL-1 β in cell supernatant will increase after stimulation. A549 cells were incubated in DMEM with TNF α (1 ng/ml, 10 ng/ml) for 2h, 4h, 8h, 24h, 48h, then cells were observed by inverted microscope.

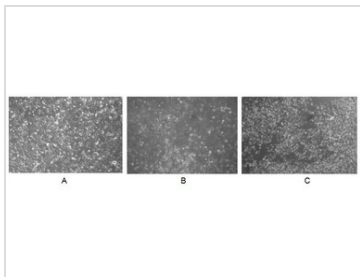
Observed MW 21 kDa.

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; 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.

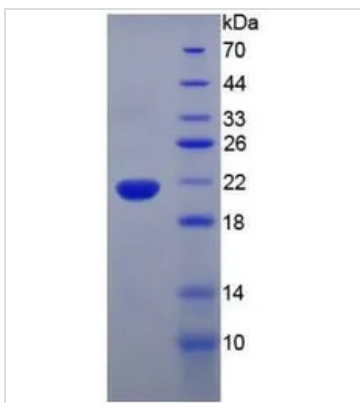
(C) A549 cells cultured in DMEM, stimulated with 10 ng/ml TNF alpha for 48hrs.

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

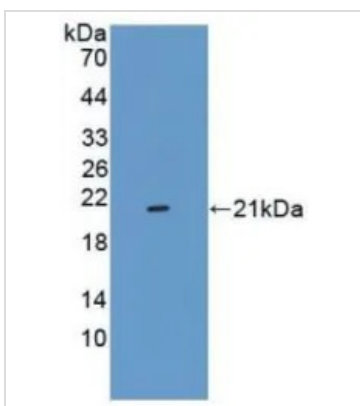
Sample (cell supernatant of A549 cells)	Concentration of IL-1 β (ng/ml)
Unstimulated	1.344
Stimulated with TNF α (1 ng/ml)	9.304
Stimulated with TNF α (10 ng/ml)	29.064

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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