

Human TNF beta protein, His tag (active)

Cat. No. GTX00103-pro

Application	Functional Assay
Species	Human

Package
10 µg

APPLICATION

Application Note

TNF- β , a member of the tumor necrosis factor family, is a potent lymphoid factor that exerts cytotoxic effects on a wide range of tumor cells. The biological effects of TNF- β are very similar to TNF- α , due to the similarity of molecular structure and the receptors. As reported, TNF- β could inhibit the proliferation and induce necrosis of A549 cells, and the concentration of IL-1 β in cell supernatant will increase after stimulation. Therefore, A549 cells were incubated in DMEM with TNF- β (10 ng/ml) for 8h, 24h, 48h, 72h, then cells were observed by inverted microscope.

Observed MW 23 kDa.

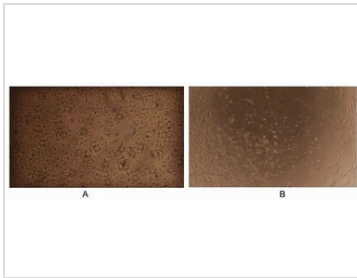
PROPERTIES

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; Pro36~Leu205 (NP_000586.2)
Expression System	E. coli
Purity	> 97%
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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Date 2024 / 03 / 28 Page 1 of 2

DATA IMAGES

GTX00103-pro Functional Assay Image

The apoptosis effect of GTX00103-pro Human TNF beta protein (active).

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

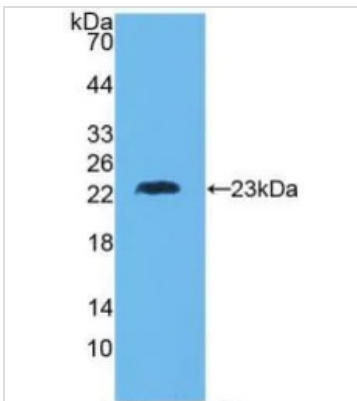
(B) A549 cells cultured in DMEM, stimulated with 10 ng/ml TNF-beta for 72hrs.

Effect of TNF- β on A549 cells by ELISA.

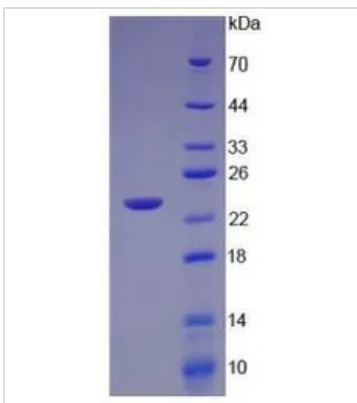
Sample (cell supernatant of A549 cells)	Concentration of IL-1 β (ng/ml)
Unstimulated	4.9
Stimulated with TNF- β (10ng/ml)	95.9

GTX00103-pro Functional Assay Image

ELISA detection of IL-1 beta expression from A549 cells stimulated by GTX00103-pro Human TNF beta protein (active) at 10 ng/ml for 8hrs.


GTX00103-pro Image

WB analysis of GTX00103-pro Human TNF beta protein (active).


GTX00103-pro Image

SDS-PAGE analysis of GTX00103-pro Human TNF beta protein (active).



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