

## Human TNF beta protein, His tag (active)

**Cat. No. GTX00103-pro****Applications** Functional Assay**Species** Human**Package**

10 µg

## Applications

**Application Note**

TNF- $\beta$ , 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- $\beta$  are very similar to TNF- $\alpha$ , due to the similarity of molecular structure and the receptors. As reported, TNF- $\beta$  could inhibit the proliferation and induce necrosis of A549 cells, and the concentration of IL-1 $\beta$  in cell supernatant will increase after stimulation. Therefore, A549 cells were incubated in DMEM with TNF- $\beta$  (10 ng/ml) for 8h, 24h, 48h, 72h, then cells were observed by inverted microscope.

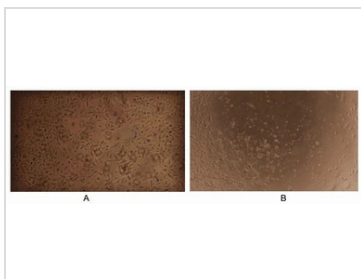
**Observed MW (kDa)** 23 kDa.

## 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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DATA IMAGES



**GTX00103-pro Functional Assay Image**

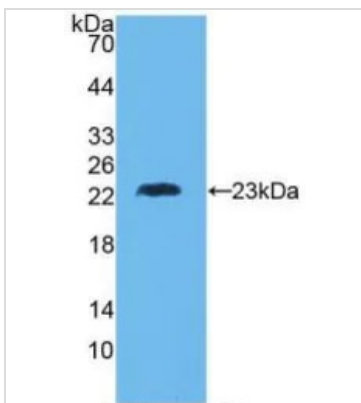
The apoptosis effect of GTX00103-pro Human TNF beta protein (active).  
 (A) A549 cells cultured in DMEM for 72hrs.  
 (B) A549 cells cultured in DMEM, stimulated with 10 ng/ml TNF-beta for 72hrs.

Effect of TNF-β on A549 cells by ELISA.

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

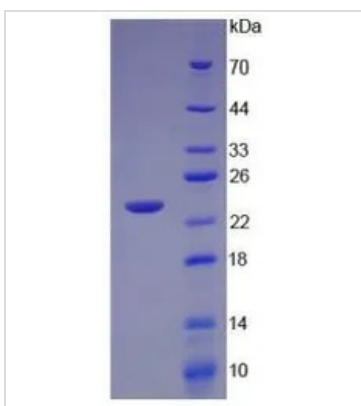
**GTX00103-pro Functional Assay Image**

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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