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## Product Datasheet

### Human TNF alpha protein, His tag (active), Unconjugated GTX00102-PRO

Article Name	Human TNF alpha protein, His tag (active), Unconjugated
Biozol Catalog Number	GTX00102-PRO
Supplier Catalog Number	GTX00102-pro
Alternative Catalog Number	GTX00102-PRO-10
Manufacturer	GeneTex
Category	Proteine/Peptide
Application	FA
Species Reactivity	Human
Conjugation	Unconjugated
NCBI	<a href="#">7124</a>
UniProt	<a href="#">P01375</a>
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, ProClin 300.
Expression System	E. coli
Form	Lyophilized powder
Sequence	N-terminal His-Tag, Val77~Leu233 (NP_000585.2)

## Application Notes

TNF-a (Tumor necrosis factor), is mainly secreted by macrophages and can induce cell death of certain tumor cell lines. It has been reported that TNFa can inhibit the proliferation and induce apoptosis of A549 cells, besides, the concentration of IL-1beta and IL-8 in cell supernatant will increase after stimulation. Therefore, a stimulation assay of TNFa was conducted using A549 cells. Briefly, A549 cells were incubated in DMEM with different concentrations of TNFa (1 ng/ml, 10 ng/ml, 100 ng/ml, 1000 ng/ml) for 8h, after which the concentration of IL-1beta in the cell supernatant were detected by ELISA. IL-1beta levels in the cell supernatant of A549 cells increased significantly after stimulation.