

Tumor Necrosis Factor Alpha (TNFa) Active Protein | TNFa active protein

Active Tumor Necrosis Factor Alpha (TNFa)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA148231	E Coli	Human	Activity Assay, Cell Culture

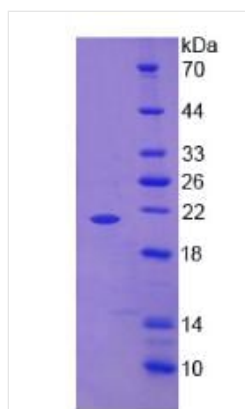
PRODUCT SYNONYMS

Tumor Necrosis Factor Alpha (TNFa); Active Tumor Necrosis Factor Alpha (TNFa); DIF; TNF-A; TNFSF2; Cachectin; Tumor Necrosis Factor Ligand Superfamily Member 2; TNFa active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Reactivity	Human
Purity/Purification	> 95%
Form/Format	Freeze-dried powder
Sequence Length	233
Applicable Applications for TNFa active protein	Activity Assay, Cell Culture
Tag	N-terminal His Tag
Buffer Formulation	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Fragment	Val77~Leu233
Isoelectric Point	7

IMAGES



SDS-PAGE

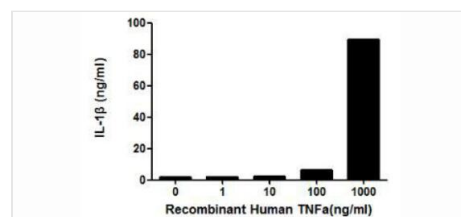


Figure 1. IL-1β level in the cell supernatant of A549 cells up-regulated by TNFa.

Activity

TNFa (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 (1ng/mL, 10ng/mL, 100ng/mL, 1000ng/mL) for 8h, after which the concentration of IL-1beta and IL-8 in the cell supernatant were detected by ELISA. IL-1beta and IL-8 levels in the cell supernatant of A549 cells increased significantly after stimulated with IL-1beta, the data was shown in Figure 1 and Figure 2 separately.

ADDITIONAL INFORMATION

Product Categories/Family for TNFa active protein	Cytokine; Tumor immunity; Infection immunity
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NCBI AND UNIPROT INFORMATION

NCBI GI #	25952111
NCBI GeneID	7124
NCBI Accession #	NP_000585.2
NCBI GenBank Nucleotide #	NM_000594.3
UniProt Accession #	P01375; O43647; Q9P1Q2; Q9UIV3
Molecular Weight	Predicted Molecular Weight: 21.0kDa Accurate Molecular Weight: 21kDa
NCBI Official Full Name	tumor necrosis factor
NCBI Official Synonym Full Names	tumor necrosis factor
NCBI Official Symbol	TNF
NCBI Official Synonym Symbols	DIF; TNFA; TNFSF2; TNLG1F; TNF-alpha
NCBI Protein Information	tumor necrosis factor
UniProt Protein Name	Tumor necrosis factor
UniProt Gene Name	TNF
UniProt Synonym Gene Names	TNFA; TNFSF2; TNF-a; NTF; ICD1; ICD2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-human-active-protein/tumor-necrosis-factor-alpha-tnfa/148231>