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Recombinant human TNF-alpha protein

Catalog Number: ATGP3152

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
77-233aa

UniProt No.
P01375

NCBI Accession No.
NP_000585.2

Alternative Names
Tumor necrosis factor, Cachectin, TNF-alpha, Tumor necrosis factor ligand superfamily member 2, TNFSF2, TNF-a, TNFA, TNF

PRODUCT SPECIFICATION

Molecular Weight
18.1 kDa (163aa)

Concentration
1mg/ml (determined by absorbance at 280nm)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity
> 90% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Biological Activity
Measured in a cytotoxicity assay using L-929 mouse fibroblast cells in the presence of the metabolic inhibitor actinomycin D. The ED50 range ≤ 0.2ng/ml.

Tag
His-Tag

Application
SDS-PAGE, Bioactivity

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

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BACKGROUND

Description

TNF, also known as tumor necrosis factor, is cytokine that binds to TNFRSF1A/TNFR1 and TNFRSF1B/TNFBR. It is mainly secreted by macrophages and can induce cell death of certain tumor cell lines. It is potent pyrogen causing fever by direct action or by stimulation of interleukin-1 secretion and is implicated in the induction of cachexia, under certain conditions it can stimulate cell proliferation and induce cell differentiation. Recombinant human TNF, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

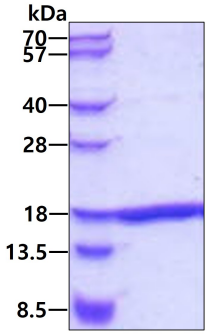
<ADP>VRSSSRT PSDKPVAHVV ANPQAEGQLQ WLNRRANALL ANGVELRDNQ LVVPSEGLYL IYSQVLFKGQ GCPSTHVLLT HTISRIAVSY QTKVNLLSAI KSPCQRETPE GAEAKPWYEP IYLGGVFQLE KGDRLSAEIN RPDYLDFAES GQVYFGIIAL <HHHHHH>

General References

Friedmann E. et al., (2006) Nat. Cell Biol. 8:843-848.
Zhang XM. et al., (1992) J. Biol. Chem. 267:24069-24075.

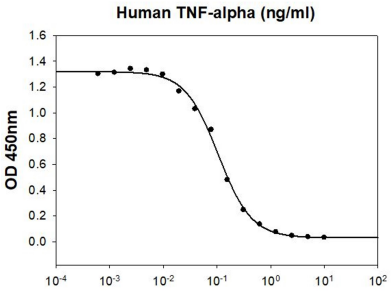
DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

Biological Activity



Human TNF-alpha induces cell cytotoxicity in the L-929 mouse fibroblast cells in the presence of the metabolic inhibitor actinomycin D.