Datasheet for ABIN6387644

TNF alpha Protein (AA 80-235) (His tag)

1 Image

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Overview

Quantity:	100 µg
Target:	TNF alpha
Protein Characteristics:	AA 80-235
Origin:	Mouse
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This TNF alpha protein is labelled with His tag.
Application:	SDS-PAGE (SDS)

Product Details

Sequence:	LRSSSQNSSD KPVAHVVANH QVEEQLEWLS QRANALLANG MDLKDNQLVV PADGLYLVYS QVLFKGQGCP DYVLLTHTVS RFAISYQEKV NLLSAVKSPC PKDTPEGAEL KPWYEPIYLG GVFQLEKGDQ LSAEVNLPKY LDFAESGQVY FGVIALHHHH HH
Purity:	> 90 % by SDS - PAGE
Endotoxin Level:	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Biological Activity Comment:	Measured in a cytotoxicity assay using L929 mouse fibrosarcoma cells in the presence of the metabolic inhibitor actinomycin D. The ED50 for this effect is less or equal to 0.02 ng/ml.

Target Details

Target:	TNF alpha

Target Details

Alternative Name:	Tumor necrosis factor (TNF alpha Products)
Background:	TNF, also known as tumor necrosis factor isoform 1, is the prototypic ligand of the TNF superfamily. It is a pleiotropic molecule that plays a central role in inflammation, apoptosis, and immune system development. This protein is produced by a wide variety of immune and epithelial cell types. It is assembled intracellularly to form a noncovalently linked homotrimer which is expressed on the cell surface. Cell surface TNF can induce the lysis of neighboring tumor cells and virus infected cells, and it can generate its own downstream cell signaling following ligation by soluble TNFR I. It also promotes inflammatory responses by inducing the activation of vascular endothelial cells and macrophages. Recombinant Mouse TNF, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Molecular Weight:	18.0kDa (162aa) 18-28kDa (SDS-PAGE under reducing conditions)
NCBI Accession:	NP_038721
UniProt:	P06804
Pathways:	NF-kappaB Signaling, Apoptosis, Caspase Cascade in Apoptosis, TLR Signaling, Cellular Response to Molecule of Bacterial Origin, Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process, Production of Molecular Mediator of Immune Response, Positive Regulation of Endopeptidase Activity, Hepatitis C, Protein targeting to Nucleus, Inflammasome

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Comment:	Bioactivity Validated
Restrictions:	For Research Use only

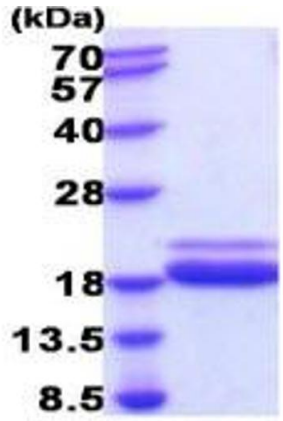
Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Liquid. In Phosphate Buffered Saline (pH 7.4)
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or

Handling

-70C. Avoid repeated freezing and thawing cycles.

Images



15% SDS-PAGE (3ug)

SDS-PAGE

Image 1.