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Datasheet for ABIN6700748 **TNF alpha Protein**

1 Image

1 Publication



Overview

Quantity:	20 µg
Target:	TNF alpha
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	SDS-PAGE (SDS)

Product Details

Purpose:	TNF-α Mouse Recombinant Protein
Purification:	Purity was determined to be greater than 98% by analysis by RP-HPLC and by reducing and non-reducing SDS- PAGE.
Purity:	98,00%
Endotoxin Level:	Measured by LAL is 0.04 EU/ μ g protein (with 50% confidence range).
Biological Activity Comment:	Recombinant Mouse TNF α is fully biologically active when compared to standard. The ED50 as determined by the cytolysis of mouse L929 cells in the presence of Actinomycin D is 13-20 pg/mL.

Target Details

Target:	TNF alpha
Alternative Name:	Tnf (TNF alpha Products)
Background:	Synonyms: Tumor necrosis factor, TNF-alpha, TNF-a, TNFa, cytokine, Tumor necrosis factor

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	ligand superfamily member 2, Cachectin Background: Tumor Necrosis Factor-alpha (TNF-a) is pleiotrophic cytokine secreted by macrophages, monocytes, neutrophils, T-cells, NK-cells following stimulation by bacterial LPS . TNF-a activity is mediated via interactions with TNFR1 &TNFR2 receptors. The synthesis of
	TNF-alpha is induced by many different stimuli including interferons, IL-2 & GM-CSF. Recombinant mouse TNF-a produced in E.Coli is a non-glycosylated polypeptide chain containing 156 amino acids and having a molecular mass of 17,300 daltons.
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:	Other: User Optimized
	Application_Note: TNF α protein has been tested by SDDS-PAGE and is suitable as a control for
	polyclonal or monoclonal anti-TNFa in immunological assays.
Comment:	Suggested_Applications: Cellular Assay Other_Performance_Data:
Restrictions:	For Research Use only

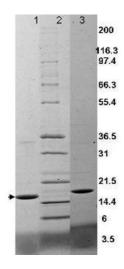
Handling

Format:	Lyophilized
Reconstitution:	Reconstitution_Buffer: Restore with deionized water (or equivalent) Reconstitution_Volume: 20 µL (20-200 µL)
Concentration:	0.1 mg/mL
Buffer:	Buffer: 0.01 M Sodium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None
Preservative:	Without preservative
Storage:	-20 °C

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Storage Comment:	Store vial at -20° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This
	product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier
	protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL) . For best results aliquot contents and
	freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each
	opening to dislodge contents from the cap and to clarify if contents are not clear after standing
	at room temperature.
Expiry Date:	6 months
Publications	
Product cited in:	Sun, Yau, Wong, Li, Huang, Yao: "Role of TRPM2 in H(2)O(2)-induced cell apoptosis in
	endothelial cells." in: PloS one , Vol. 7, Issue 8, pp. e43186, (2013) (PubMed).

Images



SDS-PAGE

Image 1. TNF-a Mouse Cytokine - SDS-PAGE. SDS-PAGE shows bands corresponding to TNF-a $(1\mu g)$ in lane 1 (unreduced, arrowhead) and lane 3 (reduced). Molecular weight estimation was made by comparison to prestained MW markers, lane 2.

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