

Tumor Necrosis Factor-alpha Active Protein | mTNF a active protein

Recombinant Mouse Tumor Necrosis Factor-alpha

CATALOG #
AAA38134

HOST
E Coli

PRODUCT SYNONYMS

Tumor Necrosis Factor-alpha; Recombinant Mouse Tumor Necrosis Factor-alpha; TNF a Mouse; Tumor Necrosis Factor-Alpha Mouse Recombinant; TNF-alpha; Tumor necrosis factor ligand superfamily member 2; TNF-a; Cachectin; DIF; TNFA; TNFSF2; mTNF a active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (c) Analysis by SDS-PAGE.
Form/Format	Lyophilized from a 0.2 um filtered concentrated solution in PBS, pH 7.2. Sterile Filtered White lyophilized (freeze-dried) powder.
Sequence	MLRSSQNSS DKPVAHVVAN HQVEEQLEWL SQRANALLAN GMDLKDNQLV VPADGLYLVY SQVLFKGQGC PDYVLLTHTV SRFAISYQEK VNLLSAVKSP CPKDTPEGAE LKPWYEPIYL GGVFQLEKGD QLSAEVNLPK YLDFAESGQV YFGVIAL
Sequence Length	219
Solubility	It is recommended to reconstitute the lyophilized Tumor Necrosis Factor-alpha in sterile 18Momega-cm H2O not less than 100 ug/ml, which can then be further diluted to other aqueous solutions.
Protein Content	Protein quantitation was carried out by two independent methods1. UV spectroscopy at 280 nm using the absorbency value of 1.24 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics). 2. Analysis by RP-HPLC, using a calibrated solution of TNF-a as a Reference Standard.
Biological Activity	The ED50 as determined by the cytotoxicity of murine L929 cells in the presence of Actinomycin D is < 0.1ng/ml, corresponding to a Specific Activity of 10,000,000 Units/mg.
Preparation and Storage	Lyophilized Tumor Necrosis Factor-a although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution TNF-a should be stored at 4 degree C between 2-7 days and for future use below -18 degree C.For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for mTNF a active protein	Description: Tumor Necrosis Factor-a Mouse Recombinant produced in E Coli is a single, non glycosylated, polypeptide chain containing 157 amino acids and having a molecular mass of 17301.32 Dalton. The TNF-alpha is purified by standard chromatographic techniques. Introduction: Tumor necrosis factor is a cytokine involved in systemic inflammation and is a member of a group of cytokines that all stimulate the acute phase reaction. TNF is mainly secreted by macrophages. TNF causes apoptotic cell death, cellular proliferation, differentiation, inflammation, tumorigenesis and viral replication, TNF is also involved in lipid metabolism, and coagulation. TNF's primary role is in the regulation of immune cells.Dysregulation and, in particular, overproduction of TNF have been implicated in a variety of human diseases- autoimmune diseases, insulin resistance, and cancer.
Product Categories/Family for mTNF a active protein	Cytokines and Growth Factors; Cytokines; Tumor Necrosis Factor

NCBI AND UNIPROT INFORMATION

NCBI GI #	518831589
NCBI GeneID	21926
NCBI Accession #	NP_001265530.1
NCBI GenBank Nucleotide #	NM_001278601.1
UniProt Accession #	P06804; O35853; Q62326; Q91VF3
Molecular Weight	25,896 Da
NCBI Official Full Name	tumor necrosis factor isoform 2
NCBI Official Synonym Full Names	tumor necrosis factor
NCBI Official Symbol	Tnf
NCBI Official Synonym Symbols	DIF; Tnfa; TNF-a; TNFSF2; Tnfsf1a; TNFalpha; TNF-alpha
NCBI Protein Information	tumor necrosis factor; cachectin; tumor necrosis factor ligand superfamily member 2; tumor necrosis factor-alpha
UniProt Protein Name	Tumor necrosis factor
UniProt Gene Name	Tnf
UniProt Synonym Gene Names	Tnfa; Tnfsf2; TNF-a; NTF; ICD1; ICD2
UniProt Entry Name	TNFA_MOUSE

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-mtnf-a-active-protein/tumor-necrosis-factor-alpha/38134>