TNF a Protein

PRODUCT OVERVIEW

Product Name	TNF a, Protein
Full Product Name	TNF a protein
Product Gene Name	TNF a protein
Molecular Weight	25,644 Da
OMIM	191160
3D Structure	ModBase 3D Structure for P01375
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for TNF a protein	MBS8526835 is a protein targeting TNF a.
Other Notes	Small volumes of TNF a protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TNF a. It may not necessarily be applicable to this product.

NCBI GI #	25952111
NCBI GeneID	7124
NCBI Accession #	NP_000585.2
UniProt Primary Accession #	P01375
UniProt Secondary Accession #	O43647; Q9P1Q2; Q9UIV3
UniProt Related Accession #	P01375
GenBank Nucleotide #	NM_000594.3
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
UniProt Protein Name	Tumor necrosis factor
UniProt Synonym Protein Names	Cachectin; TNF-alpha; Tumor necrosis factor ligand superfamily member 2; TNF-a
Protein Family	Tumor necrosis factor
UniProt Gene Name	TNF
UniProt Synonym Gene Names	TNFA; TNFSF2; TNF-a; NTF; ICD1; ICD2
NCBI Protein Information	tumor necrosis factor

NCBI Summary for TNF a	This gene encodes a multifunctional proinflammatory cytokine that belongs to the tumor necrosis factor (TNF) superfamily. This cytokine is mainly secreted by macrophages. It can bind to, and thus functions through its receptors TNFRSF1A/TNFR1 and TNFRSF1B/TNFBR. This cytokine is involved in the regulation of a wide spectrum of biological processes including cell proliferation, differentiation, apoptosis, lipid metabolism, and coagulation. This cytokine has been implicated in a variety of diseases, including autoimmune diseases, insulin resistance, and cancer. Knockout studies in mice also suggested the neuroprotective function of this cytokine. [provided by RefSeq, Jul 2008]
UniProt Comments for TNF a	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. Impairs regulatory T-cells (Treg) function in individuals with rheumatoid arthritis via FOXP3 dephosphorylation. Upregulates the expression of protein phosphatase 1 (PP1), which dephosphorylates the key 'Ser-418' residue of FOXP3, thereby inactivating FOXP3 and rendering Treg cells functionally defective (PubMed:23396208). Key mediator of cell death in the anticancer action of BCG-stimulated neutrophils in combination with DIABLO/SMAC mimetic in the RT4v6 bladder cancer cell line (PubMed:22517918).
Research Articles on TNF a	**1.** The ENAM and TNF-alpha genes were likely associated with caries occurrence in Chinese children. The ENAM rs3796703 CT and TNF-alpha rs1800629 AG genotypes might be involved in caries susceptibility and protection, respectively.
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