Tumor Necrosis Factor Alpha-Induced Protein 3 (TNFAIP3) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Tumor necrosis factor alpha-induced protein 3 (Tnfaip3), Recombinant Protein
Full Product Name	Recombinant Mouse Tumor necrosis factor alpha-induced protein 3 (Tnfaip3)
Product Gene Name	Tnfaip3 recombinant protein
Product Synonym Gene Name	Tnfaip3
Sequence	AEQLLPQALY LSNMRKAVKI RERTPEDIFK PTNGIIYHFK TMHRYTLEMF RTCQFCPQFR EIIHKALIDR SVQASLESQK KLNWCREVRK LVALKTNGDG NCLMHAACQY MWGVQDTDLV LRKALCSTLK ETDTRNFKFR WQLESLKSQE FVETGLCYDT RNWNDEWDNL VKMASADTPA ARSGLQYNSL EEIHIFVLSN ILRRPIIVIS DKMLRSLESG SNFAPLKVGG IYLPLHWPAQ ECYRYPIVLG YDSQHFVPLV TLKDSGPELR AVPLVNRDRG RFEDLKVHFL TDPENEMKEK LLKEYLIVME IPVQGWDHGT THLINAAKLD EANLPKEINL VDDYFELVQH EYKKWQENSD QARRAAHAQN
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	87,654 Da
Sequence Positions	2-371, full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q60769
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Tnfaip3 recombinant protein	This gene was identified as a gene whose expression is rapidly induced by the tumor necrosis factor (TNF). This protein is a zinc finger protein, and has been shown to inhibit NF-kappa B activation as well as TNF-mediated apoptosis. Knockout studies of a similar gene in mice suggested that this gene is critical for limiting inflammation by terminating TNF-induced NF-kappa B responses.
Other Notes	Small volumes of Tnfaip3 recombinant 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.
Searchable Terms for Tnfaip3 purchase	MBS1412977 is a recombinant protein targeting Tnfaip3. Also known as Recombinant Mouse Tumor necrosis factor alpha-induced protein 3 (Tnfaip3). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Tnfaip3. It may not necessarily be applicable to this product.

NCBI GI #	261862307

NCBI GeneID	21929
NCBI Accession #	NP_033423.3
UniProt Primary Accession #	Q60769
UniProt Secondary Accession #	Q3U968
UniProt Related Accession #	Q60769
GenBank Nucleotide #	NM_009397.3
NCBI Official Full Name	tumor necrosis factor alpha-induced protein 3 isoform 1
NCBI Official Synonym Full Names	tumor necrosis factor, alpha-induced protein 3
NCBI Official Symbol	Tnfaip3
NCBI Official Synonym Symbols	A20; Tnfip3
UniProt Protein Name	Tumor necrosis factor alpha-induced protein 3
UniProt Synonym Protein Names	Putative DNA-binding protein A20; Zinc finger protein A20
Protein Family	Tumor necrosis factor alpha-induced protein
UniProt Gene Name	Tnfaip3
UniProt Synonym Gene Names	Tnfip3; TNF alpha-induced protein 3
NCBI Protein Information	tumor necrosis factor alpha-induced protein 3
UniProt Comments for Tnfaip3	Ubiquitin-editing enzyme that contains both ubiquitin ligase and deubiquitinase activities. Involved in immune and inflammatory responses signaled by cytokines, such as TNF-alpha and IL-1 beta, or pathogens via Toll-like receptors (TLRs) through terminating NF-kappa-B activity. Essential component of a ubiquitin-editing protein complex, comprising also RNF11, ITCH and TAX1BP1, that ensures the transient nature of inflammatory signaling pathways. In cooperation with TAX1BP1 promotes disassembly of E2-E3 ubiquitin protein ligase complexes in IL-1R and TNFR-1 pathways; affected are at least E3 ligases TRAF6, TRAF2 and BIRC2, and E2 ubiquitin-conjugating enzymes UBE2N and UBE2D3. In cooperation with TAX1BP1 promotes ubiquitination of UBE2N and proteasomal degradation of UBE2N and UBE2D3. Upon TNF stimulation, deubiquitinates 'Lys-63'-polyubiquitin chains on RIPK1 and catalyzes the formation of 'Lys-48'-polyubiquitin chains. This leads to RIPK1 proteasomal degradation and consequently termination of the TNF- or LPS-mediated activation of NF-kappa-B. Deubiquitinates TRAF6 probably acting on 'Lys-63'-linked polyubiquitin. Upon T-cell receptor (TCR)-mediated T-cell activation, deubiquitinates 'Lys-63'-polyubiquitin chains on MALT1 thereby mediating disassociation of the CBM (CARD11:BCL10:MALT1) and IKK complexes and preventing sustained IKK activation. Deubiquitinates NEMO/IKBKG; the function is facilitated by TNIP1 and leads to inhibition of NF-kappa-B activation. Upon stimulation by bacterial peptidoglycans, probably deubiquitinates RIPK2. Can also inhibit I-kappa-B-kinase (IKK) through a non-catalytic mechanism which involves polyubiquitin; polyubiquitin promotes association with IKBKG and prevents IKK MAP3K7-mediated phosphorylation. Targets TRAF2 for lysosomal degradation. In vitro able to deubiquitinate 'Lys-11'-, 'Lys-48'- and 'Lys-63' polyubiquitin chains. Inhibitor of programmed cell death. Has a role in the function of the lymphoid system. Required for LPS-induced production of proinflammatory cytokines and IFN beta in LPS-tolerized macrophages.
Research Articles on Tnfaip3	**1.** Mice with A20 deficient B cells are prone to food allergy.
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