Tribbles Homolog 3 (TRIB3) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Tribbles homolog 3 (Trib3), Recombinant Protein
Full Product Name	Recombinant Mouse Tribbles homolog 3 (Trib3)
Product Gene Name	Trib3 recombinant protein
Product Synonym Gene Name	Trib3
Sequence	MRATPLAASA DVSCRKKPLE FDDNIDAKCP VLKRVRDEPE PGPLPSLLPP SPPPASDLSP AVAPATRLGP YILLEREQGS CSYRALHCPT GTEYTCKVYP ASEAQAVLAP YARLPTHQHV ARPTEVLLGS RLLYIFFTKT HGDLHSLVRS RRGIPESEAA GLFRQMASAV AHCHKHGLVL RDLKLRRFVF SNCERTKLVL ENLEDACVMT GSDDSLWDKH ACPAYVGPEI LSSRPSYSGK AADVWSLGVA LFTMLAGRYP FHDSEPVLLF GKIRRGTFAL PEGLSAPARC LIRCLLRKEP SERLVALGIL LHPWLREDHG RVSPPQSDRR EMDQVVPDGP QLEEAEEGEV GLYG
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	39,023 Da
Sequence Positions	1-354, 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 Q8K4K2
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Trib3 recombinant protein	This protein is a putative protein kinase that is induced by the transcription factor NF-kappaB. The encoded protein is a negative regulator of NF-kappaB and can also sensitize cells to TNF- and TRAIL-induced apoptosis. In addition, this protein can negatively regulate the cell survival serine-threonine kinase AKT1.
Other Notes	Small volumes of Trib3 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 Trib3 purchase	MBS1475772 is a recombinant protein targeting Trib3. Also known as Recombinant Mouse Tribbles homolog 3 (Trib3). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Trib3. It may not necessarily be applicable to this product.

NCBI GI #	117553621
NCBI GeneID	228775

NCBI Accession #	NP_780302.2
UniProt Primary Accession #	Q8K4K2
UniProt Secondary Accession #	Q3UMQ0; Q921E7
UniProt Related Accession #	Q8K4K2
GenBank Nucleotide #	NM_175093.2
NCBI Official Full Name	tribbles homolog 3
NCBI Official Synonym Full Names	tribbles pseudokinase 3
NCBI Official Symbol	Trib3
NCBI Official Synonym Symbols	Nipk; SINK; Trb3; Ifld2; SKIP3; TRB-3
UniProt Protein Name	Tribbles homolog 3
UniProt Synonym Protein Names	Neuronal cell death-inducible putative kinase
Protein Family	Tribbles
UniProt Gene Name	Trib3
UniProt Synonym Gene Names	Nipk; Trb3; TRB-3
NCBI Protein Information	tribbles homolog 3
UniProt Comments for Trib3	Disrupts insulin signaling by binding directly to Akt kinases and blocking their activation. May bind directly to and mask the 'Thr-308' phosphorylation site in AKT1. Binds to ATF4 and inhibits its transcriptional activation activity. Interacts with the NF-kappa-B transactivator p65 RELA and inhibits its phosphorylation and thus its transcriptional activation activity. Interacts with MAPK kinases and regulates activation of MAP kinases. May play a role in programmed neuronal cell death but does not appear to affect non-neuronal cells. Does not display kinase activity. Inhibits the transcriptional activity of DDIT3/CHOP and is involved in DDIT3/CHOP-dependent cell death during ER stress (). Can inhibit APOBEC3A editing of nuclear DNA.
Research Articles on Trib3	**1.** TRIB3, a single-domain protein with impaired kinase catalytic activity, has been described to perform a complex of roles, many of which are likely to be cell type-specific. (Review)
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