TRIO and F-Actin-Binding Protein (TRIOBP) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	TRIO and F-actin-binding protein (Triobp), Recombinant Protein
Full Product Name	Recombinant Mouse TRIO and F-actin-binding protein (Triobp) , partial
Product Gene Name	Triobp recombinant protein
Product Synonym Gene Name	Triobp
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	223,892 Da
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 Q99KW3
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Triobp recombinant protein	This gene encodes a protein with an N-terminal pleckstrin homology domain and a C-terminal coiled-coil region. The protein interacts with trio, which is involved with neural tissue development and controlling actin cytoskeleton organization, cell motility and cell growth. The protein also associates with F-actin and stabilizes F-actin structures. Mutations in this gene have been associated with a form of autosomal recessive nonsyndromic deafness. Multiple alternatively spliced transcript variants that would encode different isoforms have been found for this gene, however some transcripts may be subject to nonsense-mediated decay (NMD).
Other Notes	Small volumes of Triobp 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 Triobp purchase	MBS1429600 is a recombinant protein targeting Triobp. Also known as Recombinant Mouse TRIO and F-actin-binding protein (Triobp) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

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

NCBI GI #	88501747
NCBI GeneID	110253
NCBI Accession #	NP_001034244.1
UniProt Primary Accession #	Q99KW3
UniProt Secondary Accession #	Q2PZW9; Q2Q402; Q2Q403; Q2Q404; Q6ZPK4; Q8C6T3; Q8CG90

UniProt Related Accession #	Q99KW3
GenBank Nucleotide #	NM_001039155.1
NCBI Official Full Name	TRIO and F-actin-binding protein isoform 4
NCBI Official Synonym Full Names	TRIO and F-actin binding protein
NCBI Official Symbol	Triobp
NCBI Official Synonym Symbols	Tara; AI428493; EST478828; mKIAA1662
UniProt Protein Name	TRIO and F-actin-binding protein
UniProt Synonym Protein Names	Protein Tara; Trio-associated repeat on actin
Protein Family	TRIO and F-actin-binding protein
UniProt Gene Name	Triobp
UniProt Synonym Gene Names	Kiaa1662; Tara
NCBI Protein Information	TRIO and F-actin-binding protein
NCBI Summary for Triobp	This gene encodes a protein that interacts with trio, which is involved with neural tissue development and controlling actin cytoskeleton organization, cell motility, and cell growth. The encoded protein also associates with F-actin and stabilizes F-actin structures. Domains contained in this encoded protein are an N-terminal pleckstrin homology domain and a C-terminal coiled-coil region. Mutations in the human gene have been associated with a form of autosomal recessive nonsyndromic deafness. Multiple alternatively spliced transcript variants have been described [provided by RefSeq, Sep 2012]
UniProt Comments for Triobp	May regulate actin cytoskeletal organization, cell spreading and cell contraction by directly binding and stabilizing filamentous F-actin. The localized formation of TARA and TRIO complexes coordinates the amount of F-actin present in stress fibers. May also serve as a linker protein to recruit proteins required for F-actin formation and turnover.
Research Articles on Triobp	**1.** missense mutations in the Pejvakin (PJVK or DFNB59) gene were first identified in patients with audiological hallmarks of auditory neuropathy spectrum disorder, whereas all other PJVK alleles cause hearing loss of cochlear origin. These findings suggest that complex pathogenetic mechanisms underlie human deafness DFNB59.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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