1-Acylglycerol-3-Phosphate O-Acyltransferase ABHD5 (ABHD5) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	1-acylglycerol-3-phosphate O-acyltransferase ABHD5 (Abhd5), Recombinant Protein
Full Product Name	Recombinant Mouse 1-acylglycerol-3-phosphate O-acyltransferase ABHD5 (Abhd5)
Product Gene Name	Abhd5 recombinant protein
Product Synonym Gene Name	Abhd5
Sequence	MKAMAAEEEV DSADAGGGSG WLTGWLPTWC PTSTSHLKEA EEKMLKCVPC TYKKEPVRIS NGNRIWTLMF SHNISSKTPL VLLHGFGGGL GLWALNFEDL STDRPVYAFD LLGFGRSSRP RFDSDAEEVE NQFVESIEEW RCALRLDKMI LLGHNLGGFL AAAYSLKYPS RVSHLILVEP WGFPERPDLA DQERPIPVWI RALGAALTPF NPLAGLRIAG PFGLSLVQRL RPDFKRKYSS MFEDDTVTEY IYHCNVQTPS GETAFKNMTI PYGWAKRPML QRIGGLHPDI PVSVIFGARS CIDGNSGTSI QSLRPKSYVK TIAILGAGHY VYADQPEEFN QKVKEICHTV D
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	21,846 Da
Sequence Positions	1-351, 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 Q9DBL9
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Abhd5 recombinant protein	This protein belongs to a large family of proteins defined by an alpha beta hydrolase fold, and contains three sequence motifs that correspond to a catalytic triad found in the esterase lipase thioesterase subfamily. It differs from other members of this subfamily in that its putative catalytic triad contains an asparagine instead of the serine residue. Mutations in this gene have been associated with Chanarin-Dorfman syndrome, a triglyceride storage disease with impaired long-chain fatty acid oxidation.
Other Notes	Small volumes of Abhd5 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 Abhd5 purchase	MBS1470838 is a recombinant protein targeting Abhd5. Also known as Recombinant Mouse 1-acylglycerol-3-phosphate O-acyltransferase ABHD5 (Abhd5). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Abhd5. It may not necessarily be applicable to this product.

NCBI GI #	13385690
NCBI GeneID	67469
NCBI Accession #	NP_080455.1
UniProt Primary Accession #	Q9DBL9
UniProt Secondary Accession #	Q9CTY3
UniProt Related Accession #	Q9DBL9
GenBank Nucleotide #	NM_026179.2
NCBI Official Full Name	1-acylglycerol-3-phosphate O-acyltransferase ABHD5 isoform 1
NCBI Official Synonym Full Names	abhydrolase domain containing 5
NCBI Official Symbol	Abhd5
NCBI Official Synonym Symbols	CDS; IECN5; NCIE2; CGI-58; 1300003D03Rik; 2010002J10Rik
UniProt Protein Name	1-acylglycerol-3-phosphate O-acyltransferase ABHD5
UniProt Synonym Protein Names	Abhydrolase domain-containing protein 5; Lipid droplet-binding protein CGI-58; Protein CGI-58
Protein Family	1-acylglycerol-3-phosphate O-acyltransferase
UniProt Gene Name	Abhd5
UniProt Synonym Gene Names	Protein CGI-58
NCBI Protein Information	1-acylglycerol-3-phosphate O-acyltransferase ABHD5
UniProt Comments for Abhd5	Lysophosphatidic acid acyltransferase which functions in phosphatidic acid biosynthesis (PubMed:16679289). May regulate the cellular storage of triacylglycerol through activation of the phospholipase PNPLA2 (PubMed:16679289). Involved in keratinocyte differentiation (PubMed:16679289). Regulates lipid droplet fusion (PubMed:26083785).
Research Articles on Abhd5	**1.** Prebinding CGI-58 with PI(3)P or PI(5)P did not alter its coactivation of ATGL in vitro. In summary, purified recombinant CGI-58 that is functional as an ATGL coactivator lacks LPAAT activity.
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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