Diacylglycerol O-Acyltransferase 1 (dga1) Schizosaccharomyces Pombe Recombinant Protein

PRODUCT OVERVIEW

Product Name	Diacylglycerol O-acyltransferase 1 (dga1), Recombinant Protein
Full Product Name	Recombinant Schizosaccharomyces pombe Diacylglycerol O-acyltransferase 1 (dga1)
Product Gene Name	dga1 recombinant protein
Product Synonym Gene Name	dga1; SPCC1235.15, SPCC548.01
Product Synonym Names	Recombinant Diacylglycerol O-acyltransferase 1 (dga1); Diacylglycerol O-acyltransferase 1 EC= 2.3.1.20; Diglyceride acyltransferase
Sequence	MSEETSIPGI IASTPPISKD SRRNVSHWLQ ALAVFLHSVS LTLTASWYTV LWAFLPFWPF LIVYLIWLIY DDGFVTGKDR QKRWLRNAPP YRWFCHYFPI RLHKTTELDS EKNYIFGYHP HGIISLGAFG GFASEGADFS KLFPGINVSV LTLNSNFYVP VYRDYLMALN INSVSKKSCV SILSRKPGDS VLIVIGGAQE SLLSRPGQNN LVLKKRFGFV KLAFLTGSSL VPCFAFGESD IFEQVDNNPR TRIYKFQEIV KKIAGFTVPF FYGRGLLNKT FGLMPWRKPI NIVVGEPIDV PKKSHPTNQE IYEVHEEYIR RLEGLWNKYK DVFLPNRISE LKLSA
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 degree C. For extended storage, store at -20 or -80 degree C.
Molecular Weight	39,486 Da
Sequence Positions	1-345
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.
Chromosome Location	Chromosome: III; NC_003421.2 (215297..217099). Location: chromosome: III
3D Structure	ModBase 3D Structure for O74850
Species	Schizosaccharomyces pombe (strain 972 / 24843) (Fission yeast)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for dga1 recombinant protein	MBS1237202 is a recombinant protein targeting dga1. Also known as Recombinant Schizosaccharomyces pombe Diacylglycerol O-acyltransferase 1 (dga1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of dga1 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for dga1. It may not necessarily be applicable to this product.

NCBI GI #	162312083
NCBI GeneID	5802702

NCBI Accession #	XP_001713160.1
UniProt Primary Accession #	O74850
UniProt Secondary Accession #	Q9P3V1
UniProt Related Accession #	O74850
GenBank Nucleotide #	XM_001713108.2
NCBI Official Full Name	diacylglycerol O-acyltransferase Dga1
NCBI Official Symbol	dga1
NCBI Official Synonym Symbols	SPCC548.01
UniProt Protein Name	Diacylglycerol O-acyltransferase 1
UniProt Synonym Protein Names	Diglyceride acyltransferase
UniProt Gene Name	dga1
UniProt Entry Name	DGAT2_SCHPO
NCBI Protein Information	diacylglycerol O-acyltransferase Dga1
UniProt Comments for dga1	Function: Catalyzes the terminal and only committed step in triacylglycerol synthesis by using diacylglycerol and fatty acyl CoA as substrates. Cells defective in triacylglycerol synthesis undergo apoptosis upon entry into the stationary phase. Generation of reactive oxygen species (ROS) is essential to lipoapoptosis. Also has monoacylglycerol acyltransferase (MGAT) activity, catalyzing the acyl-CoA-dependent esterification of monoacylglycerol to diacylglycerol By similarity. Ref.2 Catalytic activity: Acyl-CoA + 1,2-diacylglycerol = CoA + triacylglycerol. Ref.2Acyl-CoA + 2-acylglycerol = CoA + diacylglycerol. Ref.2 Pathway: Glycerolipid metabolism; triacylglycerol biosynthesis. Subcellular location: Endoplasmic reticulum membrane; Multi-pass membrane protein Potential. Lipid droplet Ref.2 Ref.3. Sequence similarities: Belongs to the diacylglycerol acyltransferase family.
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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