Glycerol-3-Phosphate Acyltransferase (Plsy) (Spro_4296) Serratia Proteamaculans Recombinant Protein

PRODUCT OVERVIEW

Product Name	Glycerol-3-phosphate acyltransferase (plsY) (Spro_4296), Recombinant Protein
Full Product Name	Recombinant Serratia proteamaculans Glycerol-3-phosphate acyltransferase (plsY)
Product Gene Name	Spro_4296 recombinant protein
Product Synonym Gene Name	plsY
Product Synonym Names	Recombinant Glycerol-3-phosphate acyltransferase (plsY); Glycerol-3-phosphate acyltransferase; Acyl-PO4 G3P acyltransferase Acyl-phosphate--glycerol-3-phosphate acyltransferase G3P acyltransferase; GPAT EC= 2.3.1.n3 Lysophosphatidic acid synthase; LPA syn
Sequence	MSATALGMII FAYLCGSISS AILVCRIARL PDPRENGSGN PGATNVLRIG GRVAAAAVLV FDILKGMLPV WLAYKLDVPP LYLGLTAIAA CLGHIYPVFF HFRGGKGVAT AFGAIAPIGW DLTGLMTGTW LLTVLLSGYS SLGAIISALI APFYVWWFKP QFTFPVAMLS CLILMRHHDN IQRLWRGQEG KIWGVFRKKK NDAAEQEEKK EE
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	23,153 Da
Sequence Positions	1-212
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	NC_009832.1 (4762741..4763379)
3D Structure	ModBase 3D Structure for A8GJV0
Species	Serratia proteamaculans (strain 568)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Spro_4296 recombinant protein	MBS1233836 is a recombinant protein targeting Spro_4296. Also known as Recombinant Serratia proteamaculans Glycerol-3-phosphate acyltransferase (plsY). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Spro_4296 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 Spro_4296. It may not necessarily be applicable to this product.

NCBI GI #	157372529
NCBI GeneID	5604401

NCBI Accession #	YP_001480518.1
UniProt Primary Accession #	A8GJV0
UniProt Related Accession #	ZP_01535051
GenBank Nucleotide #	NC_009832.1
NCBI Official Full Name	putative glycerol-3-phosphate acyltransferase PlsY
NCBI Official Symbol	Spro_4296
UniProt Protein Name	Glycerol-3-phosphate acyltransferase
UniProt Synonym Protein Names	Acyl-PO4 G3P acyltransferase; Acyl-phosphate--glycerol-3-phosphate acyltransferase; G3P acyltransferase; Lysophosphatidic acid synthase
UniProt Gene Name	plsY
UniProt Synonym Gene Names	GPAT
UniProt Entry Name	PLSY_SERP5
NCBI Protein Information	putative glycerol-3-phosphate acyltransferase PlsY
UniProt Comments for Spro_4296	Function: Catalyzes the transfer of an acyl group from acyl-phosphate (acyl-PO4) to glycerol-3-phosphate (G3P) to form lysophosphatidic acid (LPA). This enzyme utilizes acyl-phosphate as fatty acyl donor, but not acyl-CoA or acyl-ACP By similarity. HAMAP-Rule MF_01043 Catalytic activity: Acyl-phosphate + sn-glycerol 3-phosphate = 1-acyl-sn-glycerol 3-phosphate + phosphate. HAMAP-Rule MF_01043 Pathway: Lipid metabolism; phospholipid metabolism. HAMAP-Rule MF_01043 Subunit structure: Probably interacts with PlsX By similarity. HAMAP-Rule MF_01043 Subcellular location: Cell inner membrane; Multi-pass membrane protein By similarity HAMAP-Rule MF_01043. Sequence similarities: Belongs to the PlsY 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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