

1-acyl-sn-glycerol-3-phosphate acyltransferase (plsC) Recombinant Protein | plsC recombinant protein

Recombinant Escherichia coli 1-acyl-sn-glycerol-3-phosphate acyltransferase (plsC)

CATALOG # AAA115990	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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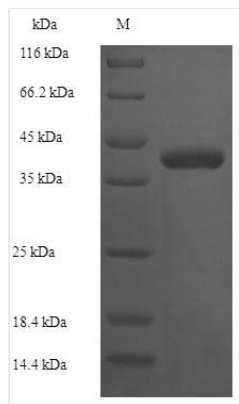
PRODUCT SYNONYMS

1-acyl-sn-glycerol-3-phosphate acyltransferase (plsC); Recombinant Escherichia coli 1-acyl-sn-glycerol-3-phosphate acyltransferase (plsC); Lysophosphatidic acid acyltransferase; LPAAT; Phosphatidic acid synthase; PA synthase; plsC recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	1-245. Full Length
Sequence	MLYIFRLIIT VIYSILVCVF GSIYCLFSPR NPKHVATFGH MFGRLAPLFG LKVECRKPTD AESYGNAIYI ANHQNNDYDMV TASNIVQPPT VTVGKKSLW IPFFGQLYWL TGNLLIDRNN RTKAHGTAIE VVNHFKKRR SIWMFPEGTR SRGRGLLPFK TGAFHAAIAA GVPIIPVCVS TTSNKINLNR LHNGLVIVEM LPPIDVSQYG KDQVRELAH CRSIMEQKIA ELDKEVAERE AAGKV
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for plsC recombinant protein	Converts lysophosphatidic acid (LPA) into phosphatidic acid by incorporating an acyl moiety at the 2 position. This enzyme can utilize either acyl-CoA or acyl-ACP as the fatty acyl donor.
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References	Characterization of the Escherichia coli gene for 1-acyl-sn-glycerol-3-phosphate acyltransferase (plsC) .Coleman J.Mol. Gen. Genet. 232:295-303(1992) The complete genome sequence of Escherichia coli K-12.Blattner F.R., Plunkett G. III, Bloch C.A., Perna N.T., Burland V., Riley M., Collado-Vides J., Glasner J.D., Rode C.K., Mayhew G.F., Gregor J., Davis N.W., Kirkpatrick H.A., Goeden M.A., Rose D.J., Mau B., Shao Y.Science 277:1453-1462(1997) Highly accurate genome sequences of Escherichia coli K-12 strains MG1655 and W3110.Hayashi K., Morooka N., Yamamoto Y., Fujita K., Isono K., Choi S., Ohtsubo E., Baba T., Wanner B.L., Mori H., Horiuchi T.Mol. Syst. Biol. 2:E1-E5(2006) Characterization of Escherichia coli cells deficient in 1-acyl-sn-glycerol-3- phosphate acyltransferase activity.Coleman J.J. Biol. Chem. 265:17215-17221(1990) Acyl-phosphates initiate membrane phospholipid synthesis in Gram-positive pathogens.Lu Y.-J., Zhang Y.-M., Grimes K.D., Qi J., Lee R.E., Rock C.O.Mol. Cell 23:765-772(2006)
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NCBI AND UNIPROT INFORMATION

NCBI GI #	16130914
NCBI GeneID	947496
NCBI Accession #	NP_417490.1
NCBI GenBank Nucleotide #	NC_000913.3
UniProt Accession #	P26647; Q2M9I2
Molecular Weight	29.5 kDa
NCBI Official Full Name	1-acyl-sn-glycerol-3-phosphate acyltransferase
NCBI Official Symbol	plsC
NCBI Official Synonym Symbols	ECK3009; JW2986; parF
NCBI Protein Information	1-acyl-sn-glycerol-3-phosphate acyltransferase
UniProt Protein Name	1-acyl-sn-glycerol-3-phosphate acyltransferase
UniProt Gene Name	plsC
UniProt Synonym Gene Names	parF; 1-AGP acyltransferase; 1-AGPAT; LPAAT; PA synthase
UniProt Entry Name	PLSC_ECOLI

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.