

# Recombinant Escherichia coli 1-acyl-sn-glycerol-3-phosphate acyltransferase

Catalog No: #AP72934

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Package Size: #AP72934-1 20ug #AP72934-2 100ug #AP72934-3 1mg

## Description

Product Name	Recombinant Escherichia coli 1-acyl-sn-glycerol-3-phosphate acyltransferase
Brief Description	Recombinant Protein
Host Species	Yeast
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-245aaSequence Info:Full Length
Other Names	Lysophosphatidic acid acyltransferase ;LPAATPhosphatidic acid synthase ;PA synthase
Accession No.	P26647
Uniprot	P26647
GeneID	947496;
Calculated MW	29.5 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	MLYIFRLIITVIYSILVCFVGSYICLFSRNPKHVATFGHMFGRLLAPLFGGLKVECRKPTDAESYGNAIYIANHQNNY DMVTASNIVQPPTVTVGKKSLLWIPFFGQLYWLGTGNLLIDRNNRTKAHGTTAEVNVNHFKKRRISIWMPFEGTRS RGRGLLPFKTGAFHAAIAAGVPIIPVCVSTTSNKINLNRLHNGLVIVEMLPPIIDVSQYGKDQVRELAHCRSIME QKIAELDKEVAEREAAGKV
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.  Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

## Background

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.

## References

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)Research Topic:Others

Note: This product is for in vitro research use only