

Phospholipase A (1) LCAT3 (LCAT3), Recombinant Protein

Cat RP05177

Size 0.02 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (E-Coli)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 0.1

mg (Baculovirus)/ 1 mg (E-Coli)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Yeast)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)
Species Arabidopsis thaliana (Mouse-ear cress)

Full Product Name

Recombinant Arabidopsis thaliana Phospholipase A (1) LCAT3 (LCAT3)

Product Gene Name

LCAT3 recombinant protein

Product Synonym Gene Name

LCAT3

Purity

Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)

Sequence

MGWIPCPCWG TNDDENAGEV ADRDPVLLVS GIGGSILHSK KKNSKSEIRV WVRIFLANLA FKQSLWSLYN
PKTGYTEPLD DNIEVLVPDD DHGLYIDIL DPSWFVKLCH LTEVYHFHDM IEMLVGCGYK KGTTLFGYGY
DFRQSNRIDL LILGLKKKLE TAYKRSGGRK VTIISHSMGG LMVSCFMYLH PEAFSKYVNK WITIATPFQG
APGCINDSIL TGVQFVEGLE SFFFVSRWTM HQLLVECPSE YEMMANPDFK WKKQPEIRVW RKKSENDVDT
SVELESFGLI ESIDLFNDAL KNNELSYGGN KIALPFNFAL LDWAAKTREI LNKAQLPDGV SFYNIYGVSL
NTPFDVCYGT ETSPIDDLSE ICQTMPEYTY VDGDGTVP AE SAAAAQFKAV ASVGVSGSHR GLLRDERVFE
LIQQWLGVEP KKA KRKHLRT HKVVD SG

Sequence Positions

1-447, Full length protein

Format

Lyophilized or liquid (Format to be determined during the manufacturing process)

Host

E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight

50,349 Da

Storage

Store at -20°C. For long-term storage, store at -20°C or -80°C. Store working aliquots at 4°C for up to one week. Repeated freezing and thawing is not recommended.

NCBI Accession

NP_566201.1

NCBI GI

18396510

NCBI GenBank Nucleotide

NM_111202.4

NCBI GeneID

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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821286 mg (Baculovirus)/ 1 mg (E-Coli)/ 0.1 mg (Mammalian-Cell)/ 1

mg (Yeast)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)

NCBI Official Full Name

lecithin:cholesterol acyltransferase 3

NCBI Official Symbol

LCAT3

NCBI Official Synonym Symbols

ARABIDOPSIS LECITHIN:CHOLESTEROL ACYLTRANSFERASE 3; ATLCAT3; lecithin:cholesterol acyltransferase 3; T21P5.27; T21P5_27

NCBI Protein Information

lecithin:cholesterol acyltransferase 3

UniProt Gene Name

LCAT3

UniProt Protein Name

Phospholipase A(1) LCAT3

UniProt Synonym Protein Names

Lecithin-cholesterol acyltransferase-like 3

UniProt Primary Accession

Q93V61

UniProt Secondary Accession

Q9SRN5

UniProt Related Accession

Q93V61

UniProt Comments

Hydrolyzes the sn-1 acylester bond of phospholipids. Phosphatidylcholine, phosphatidylethanolamine and phosphatidic acid can be used as substrates. Weak activity with lysophosphatidylcholine and no activity with tripalmitoylglycerol and cholesteryl oleate. Seems to have a preference for unsaturated fatty acids at the sn-1 position.

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