

Phospholipid--sterol O-acyltransferase (PSAT), Recombinant Protein

Cat RP01335

Size 0.05 mg (E-Coli)/ 0.05 mg (Yeast)/ 0.2 mg (E-Coli)/ 0.05 mg (Baculovirus)/ 0.5 mg (E-Coli)/ 0.2 mg (Yeast)/ 0.05 mg

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

Full Product Name

Recombinant Arabidopsis thaliana Phospholipid--sterol O-acyltransferase (PSAT) , partial

Product Gene Name

PSAT recombinant protein

Product Synonym Gene Name

PSAT

Purity

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

Sequence

DFNPLDLVWL DTTKLLSAVN CWFKCMVLDL YNQTDHPECK SRPDSGLSAI TELDPGYITG PLSTVWKEWL
KWCVEFGIEA NAIVAVPYDW RLSPTKLEER DLYFHKLKLT FETALKLRGG PSIVFAHSMG NNVFRYFLEW
LRLEIAPKHY LKWLQHIHA YFAVGAPLLG SVEAIKSTLS GVTFGLPVSE GTARLLSNSF ASSLWLMFVS
KNCKGDNTFW THFSGGAAKK DKRVYHCDEE EYQSKYSGWP TNIINIEIPS TSVTETALVN MTSMECGLPT
LLSFTARELA DGTLFKAIED YDPDSKRMLH QLKKLYHDDP VFNPLTPWER PPIKNVFCIY GAHLKTEVGY
YFAPSGKPYP DNWIITDIY ETEGSLVSRG GTVVDGNAGP ITGDETVPYH SLSWCKNWLG PKVNITMAPQ
PEHDGSDVHV ELNVDHEHG

Sequence Positions

68-506. Partial

Format

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

Host

E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight

71,688 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.

Protein Family

Phospholipid--sterol O-acyltransferase

NCBI Accession

NP_171897.2

NCBI GI

145335059

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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(Mammalian-Cell)/ 0.5 mg (Yeast)/ 0.1 mg (Baculovirus)/ 1 mg (E-Coli)/ 0.5 mg (Baculovirus)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Yeast)/ 1 mg (B

NCBI GenBank Nucleotide

NM_100282.4

NCBI GeneID

839335

NCBI Official Full Name

phospholipid sterol acyl transferase 1

NCBI Official Symbol

PSAT1

NCBI Official Synonym Symbols

ATPSAT1; enhanced response to Phytophthora 1; ERP1; F21M11.5; F21M11_5; phospholipid sterol acyl transferase 1

NCBI Protein Information

phospholipid sterol acyl transferase 1

UniProt Gene Name

PSAT

UniProt Synonym Gene Names

LCAT2; PSAT1

UniProt Protein Name

Phospholipid--sterol O-acyltransferase

UniProt Synonym Protein Names

Lecithin-cholesterol acyltransferase-like 2

UniProt Primary Accession

Q4VCM1

UniProt Secondary Accession

Q9ZWC1

UniProt Related Accession

Q4VCM1

UniProt Comments

Involved in lipid catabolism. Essential for sterol esters biosynthesis in leaves and seeds, but not in flowers. Plays a role in controlling the free sterol content of leaves. Catalyzes the transacylation of acyl groups from phospholipids to a variety of different sterols. Prefers phosphatidylethanolamine over phosphatidylcholine as an acyl donor. Not active toward neutral lipids. Highly specific for position sn-2, which in plant lipids is essentially devoid of saturated acyl groups. Broad sterol specificity (cholesterol > campesterol > sitosterol > stigmasterol), but no activity with lupeol or beta-amyrin.

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