

Sphingoid long-chain bases kinase 1 (LCBK1), Recombinant Protein

Cat RP04642

Species

Arabidopsis thaliana (Mouse-ear cress)

Full Product Name

Recombinant Arabidopsis thaliana Sphingoid long-chain bases kinase 1 (LCBK1) , partial

Product Gene Name

LCBK1 recombinant protein

Product Synonym Gene Name

LCBK1

Purity

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

Format

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

Host

E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight

83,592 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

Sphingoid long-chain bases kinase

NCBI Accession

NP_001331261.1

NCBI GI

1063733500

NCBI GenBank Nucleotide

NM_001343804.1

NCBI GeneID

832411

NCBI Official Full Name

long-chain base (LCB) kinase 1

NCBI Official Symbol

LCBK1

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

Sphingoid long-chain bases kinase 1 (LCBK1), Recombinant Protein

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NCBI Official Synonym Symbols

ATLCBK1; K19M13.8; K19M13_8; long-chain base (LCB) kinase 1; SPHINGOSINE KINASE

NCBI Protein Information

long-chain base (LCB) kinase 1

NCBI Summary

Encodes a sphingosine kinase that specifically phosphorylates D-erythro-dihydrosphingosine (DHS), but not N-acetyl-DHS or D-threo-DHS. It also also phosphorylates D-erythro-sphingosine, trans-4, trans-8-sphingadienine and phytosphingosine.

UniProt Gene Name

LCBK1

UniProt Synonym Gene Names

AtLCBK1; LCB kinase 1

UniProt Protein Name

Sphingoid long-chain bases kinase 1

UniProt Synonym Protein Names

Sphingosine kinase 1

UniProt Primary Accession

Q9LRB0

UniProt Secondary Accession

Q9FHL3; B9DHC8

UniProt Related Accession

Q9LRB0

UniProt Comments

Involved in the production of sphingolipid metabolites. Active on sphingosine, phytosphingosine (PHS, 4-hydroxysphinganine), D-erythro-dihydrosphingosine, D-erythro-sphingosine and trans-4, trans-8-sphingadienine, an LCB found exclusively in plants, but not on N-acetyl-dihydrosphingosine (C2-dihydroceramide) and D-threo-dihydrosphingosine.

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