Sphingoid Long Chain Base Kinase 4 (LCB4) Saccharomyces Cerevisiae Recombinant Protein

PRODUCT OVERVIEW

Product Name	Sphingoid long chain base kinase 4 (LCB4), Recombinant Protein
Full Product Name	Recombinant Saccharomyces cerevisiae Sphingoid long chain base kinase 4 (LCB4) , partial
Product Gene Name	LCB4 recombinant protein
Product Synonym Gene Name	LCB4
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	69,639 Da
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q12246
Species	Saccharomyces cerevisiae (strain 204508 / S288c) (Baker's yeast)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for LCB4 recombinant protein	MBS1338805 is a recombinant protein targeting LCB4. Also known as Recombinant Saccharomyces cerevisiae Sphingoid long chain base kinase 4 (LCB4) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of LCB4 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LCB4. It may not necessarily be applicable to this product.

NCBI GI #	6324745
NCBI GeneID	854342
NCBI Accession #	NP_014814.1
UniProt Primary Accession #	Q12246
UniProt Secondary Accession #	D6W2M7
UniProt Related Accession #	Q12246
GenBank Nucleotide #	NM_001183590.1
NCBI Official Full Name	sphinganine kinase LCB4

NCBI Official Symbol	LCB4
UniProt Protein Name	Sphingoid long chain base kinase 4
UniProt Synonym Protein Names	Sphinganine kinase 4Curated
Protein Family	Sphingoid long chain base kinase
UniProt Gene Name	LCB4
UniProt Synonym Gene Names	LCB kinase 4
NCBI Protein Information	sphinganine kinase LCB4
UniProt Comments for LCB4	Catalyzes the phosphorylation of the sphingoid long chain bases dihydrosphingosine (DHS or sphinganine) and phytosphingosine (PHS) to form dihydrosphingosine 1-phosphate (DHS-1P) and phytosphingosine 1-phosphate (PHS-1P) respectively (PubMed:9677363, PubMed:11102354, PubMed:11795842, PubMed:16141212). Involved in the biosynthesis of sphingolipids and ceramides (PubMed:12493772). Required with LCB3 for an effective incorporation of DHS into ceramides through a phosphorylation-dephosphorylation cycle. Involved in heat-induced transient cell cycle arrest (PubMed:11056159). Accumulation of phosphorylated sphingoid long chain bases (LCBPs) stimulates calcium influx and activates calcineurin signaling (PubMed:11278643). Involved in heat-stress resistance (PubMed:11967828).
Research Articles on LCB4	**1.** Lcb4p is post-translationally modified by phosphorylation by Pho85 and degraded via the ubiquitin-dependent pathway
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