Squalene Synthase (ERG9) Cyberlindnera Jadinii Recombinant Protein

PRODUCT OVERVIEW

Product Name	Squalene synthase (ERG9), Recombinant Protein
Full Product Name	Recombinant Cyberlindnera jadinii Squalene synthase (ERG9)
Product Gene Name	ERG9 recombinant protein
Product Synonym Gene Name	ERG9
Product Synonym Names	Recombinant Squalene synthase (ERG9); Squalene synthase; SQS; SS EC= 2.5.1.21; FPP:FPP farnesyltransferase Farnesyl-diphosphate farnesyltransferase
Sequence	MGKLLQLALH PDELASIVQF KLFRKNENAR NPATESAELI RCYELLNLTS RSFAAVIEEL HPELRNVIMV FYLVLRALDT VEVDMSIENS VKLPVLRQFH EKLDTKDWTF DGNSPNEKDR CVLVEFDRIL GQYHELKPQY QKVIKEITEK MGNGMADYIE NENFNSNGLL TIEDYDLYCY YVAGLVGDGL TQLIVLAKFG NSELSVNKQL FKSMGLFLQK TNIIRDYEED QVDGRAFWPK EIWGKYANEL SDFMKPENQS QGLWCISELV CNALDHVIDV LQYLALVEEQ TSFNFCAIPQ VMAIATLELV FQNPQVLTQH VKIRKGTTVS LILESRTLEG CARIFRRYLR KIHHKSHPSD PNYLRLGITI GKIEQFLDGM YPHYVVPKGIT PQTTSIRTQV VKRLQLDEPM KRDIDEEILK TRILLLSLGV AVFGVVYGVV RII
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 degree C. For extended storage, store at -20 or -80 degree C.
Molecular Weight	50,954 Da
Sequence Positions	1-443
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 O74165
Species	Cyberlindnera jadinii (Torula yeast) (Pichia jadinii)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ERG9 recombinant protein	MBS1042184 is a recombinant protein targeting ERG9. Also known as Recombinant Cyberlindnera jadinii Squalene synthase (ERG9). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of ERG9 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 ERG9. It may not necessarily be applicable to this product.

NCBI GI #	51701378
NCBI Accession #	O74165.1
UniProt Primary Accession #	O74165

NCBI Official Full Name	Squalene synthase
UniProt Protein Name	Squalene synthase
UniProt Synonym Protein Names	FPP:FPP farnesyltransferase; Farnesyl-diphosphate farnesyltransferase
UniProt Gene Name	ERG9
UniProt Synonym Gene Names	SQS; SS
UniProt Entry Name	FDFT_CYBJA
UniProt Comments for ERG9	Function: Catalyzes the condensation of 2 two farnesyl pyrophosphate moieties to form squalene. It is the first committed enzyme of the sterol biosynthesis pathway. Required for the biosynthesis of ergosterol. Ref.1 Catalytic activity: 2 farnesyl diphosphate + NAD(P)H = squalene + 2 diphosphate + NAD(P)+. Cofactor: Magnesium By similarity. Pathway: Terpene metabolism; lanosterol biosynthesis; lanosterol from farnesyl diphosphate: step 1/3. Subcellular location: Endoplasmic reticulum membrane; Multi-pass membrane protein By similarity. Sequence similarities: Belongs to the phytoene/squalene synthase family.
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