Squalene synthase (SQS1), Recombinant Protein

CD BioSciences
Plant Protein

Cat RP00376

Species
Arabidopsis thaliana (Mouse-ear cress)

Full Product Name
Recombinant Arabidopsis thaliana Squalene synthase (SQS1)

Product Synonym Names
Recombinant Squalene synthase (SQS1); Squalene synthase; SQS; SS EC= 2.5.1.21; FPP:FPP farnesyltransferase Farnesyl-diphosphate farnesyltransferase

Product Gene Name
SQS1 recombinant protein

Product Synonym Gene Name
SQS1

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

Sequence
MGSLGTMLRY PDDIYPLLKM KRAIEKAEKQ IPPEPHWGFC YSMLHKVSRS FSLVIQQLNT ELRNAVCVFY LVLRALDTVE DDTSIPTDEK VPILIAFHRH IYDTDWHYSC GTKEYKILMD QFHHVSAAFL ELEKGYQEAI EEITRRMGAG MAKFICQEVE TVDDYDEYCH YVAGLVGLGL SKLFLAAGSE VLTPDWEAIS NSMGLFLQKT NIIRDYLEDI NEIPKSRMFW PREIWGKYAD KLEDLKYEEN TNKSVQCLNE MVTNALMHIE DCLKYMVSLR DPSIFRFCAI PQIMAIGTLA LCYNNEQVFR GVVKLRRGLT AKVIDRTKTM ADVYGAFYDF SCMLKTKVDK NDPNASKTLN RLEAVQKLCR DAGVLQNRKS YVNDKGQPNS VFIIMVVILL AIVFAYLRAN

Sequence Positions
1-410

Chromosome Location
Chromosome: 4; NC_003075.7 (16538282..16541926). Location: chromosome: 4

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

Host
E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight
47,142 Da

Storage
Store at -20℃. For extended storage, store at -20 or -80℃.

Protein Family
Squalene synthase

NCBI Accession
NP_195190.1

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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NCBI GI
15236168

NCBI GenBank Nucleotide
NM_119630.3

NCBI GeneID
829616

NCBI Official Full Name
Squalene synthase

NCBI Official Symbol
SQS1

NCBI Official Synonym Symbols
ERG9; SQS1; SQUALENE SYNTHASE; squalene synthase 1; T4L20.220; T4L20_220

NCBI Protein Information
Squalene synthase

NCBI Summary
Encodes squalene synthase, which converts two molecules of farnesyl diphosphate (FPP) into squalene via an intermediate: presqualene diphosphate (PSPP). It is generally thought to be one of the key enzymes of sterol biosynthesis, since it catalyzes the first pathway-specific reaction of the sterol branch of the isoprenoid pathway.

UniProt Gene Name
SQS1

UniProt Synonym Gene Names
SQS; SS

UniProt Protein Name
Squalene synthase

UniProt Synonym Protein Names
FPP:FPP farnesyltransferase; Farnesyl-diphosphate farnesyltransferase

UniProt Entry Name
FDFT_ARATH

UniProt Primary Accession
P53799

UniProt Related Accession
P53799

UniProt Comments
Catalytic activity: 2 farnesyl diphosphate + NAD(P)H = squalene + 2 diphosphate + NAD(P)+.Cofactor: Magnesium.Pathway: Terpene metabolism; lanosterol biosynthesis; lanosterol from farnesyl diphosphate: step

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1/3.Subcellular location: Endoplasmic reticulum membrane; Multi-pass membrane protein By similarity. Tissue specificity: Expressed in all tissues analyzed (inflorescences, leaves, stems and roots). Highly expressed in roots.Sequence similarities: Belongs to the phytoene/squalene synthase family.

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