

3-ketoacyl-CoA synthase 10 (FDH), Recombinant Protein

Cat *RP00516*

Size *0.02 mg/ 0.1 mg/ 5x0.1 mg*

Species

Arabidopsis thaliana (Mouse-ear cress)

Full Product Name

Recombinant *Arabidopsis thaliana* 3-ketoacyl-CoA synthase 10 (FDH)

Product Gene Name

FDH recombinant protein

Product Synonym Gene Name

EL4; KCS10

Purity

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

Sequence

MGRSNEQDLL STEIVNRGIE PSGPNAGSPT FSVRVRRLP DFLQSVNLKY VKLGYHYLIN HAVYLATIPV
LVLVFSAEVG SLSREEIWKK LWDYDLATVI GFFGVFLTA CVYFMSRPRS VYLIDFACYK PSDEHKVTK
EFIELARKSG KFDEETLGFK KRILQASGIG DETYVPRIS SSENITTMKE GREEASTVIF GALDELFEKT
RVKPKDVGVL VVNCISFNPT PLSAMVINH YKMRGNILSY NLGGMGCSAG IIAIDLARDM LQSNPNSYAV
VVSTEMVGYN WYVGSDKSMV IPNCFRMC SAVMLSNRRR DFRHAKYRLE HIVRTHKAAD DRSFERSVYQE
EDEQGFKGLK ISRDLMEVGG EALKTNITTL GPLVLPFSEQ LLFFAALLRR TFSPAAKTST TTSFSTSATA
KTNIGKSSSS DLSKPYIPDY KLAFEHFCFH AASKVVLEEL QKNLGLSEEN MEASRMTLHR FGNTSSSGIW
YELAYMEAKE SVRRGDRVWQ IAFGSGFKCN SVVWKAMRKV KKPTRNNPWV DCINRYPVPL

Sequence Positions

1-550aa; full length protein

Format

Liquid containing glycerol

Host

Cell Free Expression

Molecular Weight

61,961 Da

Storage

Store at -20°C, for extended storage, conserve at -20°C or -80°C. Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Protein Family

3-ketoacyl-CoA synthase

NCBI Accession

NP_180193.1

NCBI GI

15225270

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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NCBI GenBank Nucleotide

NM_128182.3

NCBI GeneID

817165

NCBI Official Full Name

3-ketoacyl-CoA synthase 10

NCBI Official Symbol

KCS10

NCBI Official Synonym Symbols

3-ketoacyl-CoA synthase 10; FDH; FIDDLEHEAD; KCS10; T1D16.11; T1D16_11

NCBI Protein Information

3-ketoacyl-CoA synthase 10

NCBI Summary

epidermis-specific, encodes KCS10, a putative 3-ketoacyl-CoA synthase. probably involved in the synthesis of long-chain lipids found in the cuticle.

UniProt Gene Name

FDH

UniProt Synonym Gene Names

VLCFA condensing enzyme 10

UniProt Protein Name

3-ketoacyl-CoA synthase 10

UniProt Synonym Protein Names

Protein FIDDLEHEAD

UniProt Entry Name

KCS10_ARATH

UniProt Primary Accession

Q570B4

UniProt Secondary Accession

O64846; Q9LXD6; Q9LLE3; Q9LLE4; Q9LLE5; Q9LLE6; Q9LLE7; Q9LLE8

UniProt Related Accession

AAF73973

UniProt Comments

Contributes to cuticular wax and suberin biosynthesis. Prevents the postgenital fusion of epiderm cells in organs in contact, as well as ectopic pollen hydration and germination. Required during ovules formation. May regulate an epidermis-specific developmental program during gynoecial ontogeny.

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