Fatty Acyl-Coa Reductase 3 (FAR3) Arabidopsis Thaliana Recombinant Protein

PRODUCT OVERVIEW

Product Name	Fatty acyl-CoA reductase 3 (FAR3), Recombinant Protein
Full Product Name	Recombinant Arabidopsis thaliana Fatty acyl-CoA reductase 3 (FAR3)
Product Gene Name	FAR3 recombinant protein
Product Synonym Gene Name	FAR3
Sequence	MSTEMEVVSV LKYLDNKSIL VVGAAGFLAN IFVEKILRVA PNVKKLYLLL RASKGKSATQ RFNDEILKKD LFKVLKEKYG PNLNQLTSEK ITIVDGDICL EDLGLQDFDL AHEMIHQVDA IVNLAATTKF DERYDVALGI NTLGALNVLN FAKRCAKVKI LVHVSTAYVC GEKSGLIMET PYRMGETLNG TTGLDINYEK KLVQEKLDQL RVIGAAPETI TETMKDLGLR RAKMYGWPNT YVFTKAMGEM MVGTKRENLS LVLLRPSIIT STFKEPFPGW TEGIRTIDSL AVGYGKGKLT CFLCDLDAVS DVMPADMVVN SILVSMAAQA GKQEEIIYHV GSSLRNPMKN SKFPELAYRY FSIKPWTNKE GKVVKVGAIE ILSSMRSFHR YMTIRYLIAL KGLELVNIIL CKLFEKEFQY FNKKINFIFR LVDLYQPYLF FYGIFDDSNT EKLRKMVSKT GVENEMFYFD PKVLDWDDYF LNTHVIGLLK YVF
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	56,035 Da
Sequence Positions	1-493, Full length protein
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 Q93ZB9
Species	Arabidopsis thaliana (Mouse-ear cress)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for FAR3 recombinant protein	MBS1479922 is a recombinant protein targeting FAR3. Also known as Recombinant Arabidopsis thaliana Fatty acyl-CoA reductase 3 (FAR3). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of FAR3 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 FAR3. It may not necessarily be applicable to this product.

NCBI GI #	240256153
NCBI GeneID	829521
NCBI Accession #	NP_567936.5
UniProt Primary Accession #	Q93ZB9

UniProt Secondary Accession #	O81895; Q9M071
UniProt Related Accession #	Q93ZB9
GenBank Nucleotide #	NM_119537.7
NCBI Official Full Name	Jojoba acyl CoA reductase-related male sterility protein
NCBI Official Symbol	CER4
NCBI Official Synonym Symbols	ECERIFERUM 4; FAR3; FATTY ACID REDUCTASE 3; G7
UniProt Protein Name	Fatty acyl-CoA reductase 3
UniProt Synonym Protein Names	Protein ECERIFERUM 4
Protein Family	Factor arrest protein
UniProt Gene Name	FAR3
UniProt Synonym Gene Names	CER4
NCBI Protein Information	Jojoba acyl CoA reductase-related male sterility protein
NCBI Summary for FAR3	Encodes an alcohol-forming fatty acyl-CoA reductase, involved in cuticular wax biosynthesis. Lines carrying recessive mutations are deficient in primary alcohol and have glossy stem surfaces.
UniProt Comments for FAR3	Catalyzes the reduction of fatty acyl-CoA to fatty alcohols. The preferred substrates are C24:0 and C26:0. May be unable to use saturated and monounsaturated C16 and C18 acyl-CoA as substrates. Involved in cuticular wax formation.
Research Articles on FAR3	**1.** CER4 is an alcohol-forming fatty acyl-coenzyme A reductase (FAR) that has specificity for very-long-chain fatty acids and is responsible for the synthesis of primary alcohols in the epidermal cells of aerial tissues and in roots. [CER4]
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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