3-Hydroxydecanoyl-[Acyl-Carrier-Protein] Dehydratase (fabA) Recombinant Protein

PRODUCT OVERVIEW

Product Name	3-hydroxydecanoyl-[acyl-carrier-protein] dehydratase (fabA), Recombinant Protein
Full Product Name	Recombinant Escherichia coli O6:K15:H31 3-hydroxydecanoyl-[acyl-carrier-protein] dehydratase (fabA)
Product Gene Name	fabA recombinant protein
Product Synonym Gene Name	fabA
Sequence	MVDKRESYTK EDLLASGRGE LFDAKGPQLP APNMLMMDRV VKMTETGGNF DKGYVEAELD INPDLWFFGC HFIGDPVMPG CLGLDAMWQL VGFYLGWLGG EGKGRALGVG EVKFTGQVLP TAKKVTYRIH FKRIVNRRLI MGLADGEVLV DGRLIYTASD LKVGLFQDTS AF
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	19,027 Da
Sequence Positions	1-172, 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 Q0TJA7
Species	Escherichia coli O6:K15:H31 (strain 536 / UPEC)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for fabA recombinant protein	MBS1344771 is a recombinant protein targeting fabA. Also known as Recombinant Escherichia coli O6:K15:H31 3-hydroxydecanoyl-[acyl-carrier-protein] dehydratase (fabA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of fabA 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 fabA. It may not necessarily be applicable to this product.

NCBI GI #	499898371
NCBI Accession #	WP_011579105.1
UniProt Primary Accession #	Q0TJA7
GenBank Nucleotide #	WP_011579105.1
NCBI Official Full Name	beta-hydroxydecanoyl-ACP dehydratase
UniProt Protein Name	3-hydroxydecanoyl-[acyl-carrier-protein] dehydratase

UniProt Synonym Protein Names	3-hydroxyacyl-[acyl-carrier-protein] dehydratase FabA
Protein Family	3-hydroxydecanoyl-[acyl-carrier-protein] dehydratase
UniProt Gene Name	fabA
UniProt Comments for fabA	Necessary for the introduction of cis unsaturation into fatty acids. Catalyzes the dehydration of (3R)-3-hydroxydecanoyl-ACP to E-2-decenoyl-ACP and then its isomerization to Z-3-decenoyl-ACP. Can catalyze the dehydratase reaction for beta-hydroxyacyl-ACPs with saturated chain lengths up to 16:0, being most active on intermediate chain length.
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