(3r)-Hydroxymyristoyl-[Acyl-Carrier-Protein] Dehydratase (fabZ) Pseudomonas Aeruginosa Recombinant Protein

PRODUCT OVERVIEW

Product Name	(3R)-hydroxymyristoyl-[acyl-carrier-protein] dehydratase (fabZ), Recombinant Protein
Full Product Name	Recombinant Pseudomonas aeruginosa (3R)-hydroxymyristoyl-[acyl-carrier-protein] dehydratase (fabZ)
Product Gene Name	fabZ recombinant protein
Product Synonym Gene Name	fabZ
Sequence	MMDINEIREY LPHRYPFLLV DRVVELDIEG KRIRAYKNVS INEPFFNGHF PEHPIMPGVL IIEAMAQAAG ILGFKMLDVK PADGTLYYFV GSDKLRFRQP VLPGDQLQLH AKFISVKRSI WKFDCHATVD DKPVCSAEII CAERKL
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	16,774 Da
Sequence Positions	1-146, 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 Q9HXY7
Species	Pseudomonas aeruginosa (strain 15692 / PAO1 / 1C / PRS 101 / LMG 12228)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for fabZ recombinant protein	MBS1481469 is a recombinant protein targeting fabZ. Also known as Recombinant Pseudomonas aeruginosa (3R)-hydroxymyristoyl-[acyl-carrier-protein] dehydratase (fabZ). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of fabZ 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 fabZ. It may not necessarily be applicable to this product.

NCBI GI #	15598841
NCBI GeneID	880494
NCBI Accession #	NP_252335.1
UniProt Primary Accession #	Q9HXY7
UniProt Related Accession #	Q9HXY7

GenBank Nucleotide #	NC_002516.2
NCBI Official Full Name	3-hydroxyacyl-[acyl-carrier-protein] dehydratase FabZ
NCBI Official Symbol	fabZ
UniProt Protein Name	3-hydroxyacyl-[acyl-carrier-protein] dehydratase FabZ
UniProt Synonym Protein Names	(3R)-hydroxymyristoyl-[acyl-carrier-protein] dehydratase
Protein Family	3-hydroxyacyl-[acyl-carrier-protein] dehydratase
UniProt Gene Name	fabZ
UniProt Synonym Gene Names	(3R)-hydroxymyristoyl-ACP dehydrase
NCBI Protein Information	3-hydroxyacyl-[acyl-carrier-protein] dehydratase FabZ
UniProt Comments for fabZ	Involved in unsaturated fatty acids biosynthesis. Catalyzes the dehydration of short chain beta-hydroxyacyl-ACPs and long chain saturated and unsaturated beta-hydroxyacyl-ACPs.
Research Articles on fabZ	**1.** FabZ is a hexamer (trimer of dimers) with the His/Glu catalytic dyad located within a deep, narrow tunnel formed at the dimer interface.
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