3-Oxoacyl-[Acyl-Carrier-Protein] Reductase 1 (fabG1) Synechocystis Sp. Recombinant Protein

PRODUCT OVERVIEW

Product Name	3-oxoacyl-[acyl-carrier-protein] reductase 1 (fabG1), Recombinant Protein
Full Product Name	Recombinant Synechocystis sp. 3-oxoacyl-[acyl-carrier-protein] reductase 1 (fabG1)
Product Gene Name	fabG1 recombinant protein
Sequence	MTALTAQVAL VTGASRGIGK ATALALAATG MKVVVNYAQS STAADAVVAE IIANGGEAIA VQANVANADE VDQLIKTTLD KFSRIDVLVN NAGITRDTLL LRMKLEDWQA VIDLNLTGVF LCTKAVSKLM LKQKSGRIIN ITSVAGMMGN PGQANYSAAK AGVIGFTKTV AKELASRGVT VNAVAPGFIA TDMTENLNAE PILQFIPLAR YGQPEEVAGT IRFLATDPAA AYITGQTFNV DGGMVMF
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	25,724 Da
Sequence Positions	1-247, Full length
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 P73574
Species	Synechocystis sp. (strain PCC 6803 / Kazusa)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for fabG1 recombinant protein	MBS1238013 is a recombinant protein targeting fabG1. Also known as Recombinant Synechocystis sp. 3-oxoacyl-[acyl-carrier-protein] reductase 1 (fabG1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of fabG1 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 fabG1. It may not necessarily be applicable to this product.

NCBI GI #	3913643
NCBI Accession #	P73574.1
UniProt Primary Accession #	P73574
NCBI Official Full Name	3-oxoacyl-[acyl-carrier-protein] reductase
UniProt Protein Name	3-oxoacyl-[acyl-carrier-protein] reductase

UniProt Synonym Protein Names	3-ketoacyl-acyl carrier protein reductase
Protein Family	3-oxoacyl-[acyl-carrier-protein] reductase
UniProt Gene Name	fabG
UniProt Comments for fabG1	Catalyzes the NADPH-dependent reduction of beta-ketoacyl-ACP substrates to beta-hydroxyacyl-ACP products, the first reductive step in the elongation cycle of fatty acid biosynthesis (Probable). Is capable of reducing acetoacetyl-CoA, but less well than its paralog PhaB (PubMed:26358291).
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