3-Oxoacyl-[Acyl-Carrier-Protein] Synthase 3 (fabH) Recombinant Protein

PRODUCT OVERVIEW

Product Name	3-oxoacyl-[acyl-carrier-protein] synthase 3 (fabH), Recombinant Protein
Full Product Name	Recombinant Staphylococcus saprophyticus subsp. saprophyticus 3-oxoacyl-[acyl-carrier-protein] synthase 3 (fabH)
Product Gene Name	fabH recombinant protein
Product Synonym Gene Name	fabH
Sequence	MDVGIKGFGA YAPEKVVENT YFESFLETSD EWISQMTGIK ERRWAGEDEE TSDMAYQASL KAIEDAGIEA SEIDMIIVAT STGDFPFPTV ANILQERLGI GKVASMDQLA ACSGFMYSMI NAKQFVQSGD YKNILVVGVD KLSKITDFTD RSTAILFGDG AGAVVIGEVS EGRGILSYEL GSDGSGAKHL YLNPENGKIF MNGREVFKFA VRIMGEASNN AVAKANLTAD DVDMFVPHQA NIRIMESARE RLGIPKEKMS VSVDRFGNTS AASIPLSIGQ ELENGRIKDD DVLVLVGFGG GLTWGAVTLR WGK
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	33,842 Da
Sequence Positions	1-313, 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 Q49WB6
Species	Staphylococcus saprophyticus subsp. saprophyticus (strain 15305 / DSM 20229)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for fabH recombinant protein	MBS1449553 is a recombinant protein targeting fabH. Also known as Recombinant Staphylococcus saprophyticus subsp. saprophyticus 3-oxoacyl-[acyl-carrier-protein] synthase 3 (fabH). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of fabH 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 fabH. It may not necessarily be applicable to this product.

NCBI GI #	499622760
NCBI GeneID	3616453
NCBI Accession #	WP_011303494.1
UniProt Primary Accession #	Q49WB6

UniProt Related Accession #	Q49WB6
GenBank Nucleotide #	WP_011303494.1
NCBI Official Full Name	MULTISPECIES: 3-oxoacyl-ACP synthase III
NCBI Official Symbol	SSP_RS09035
UniProt Protein Name	3-oxoacyl-[acyl-carrier-protein] synthase 3
UniProt Synonym Protein Names	3-oxoacyl-[acyl-carrier-protein] synthase III
Protein Family	3-oxoacyl-[acyl-carrier-protein] synthase
UniProt Gene Name	fabH
UniProt Synonym Gene Names	KAS III
NCBI Protein Information	3-oxoacyl-ACP synthase III
UniProt Comments for fabH	Catalyzes the condensation reaction of fatty acid synthesis by the addition to an acyl acceptor of two carbons from malonyl-ACP. Catalyzes the first condensation reaction which initiates fatty acid synthesis and may therefore play a role in governing the total rate of fatty acid production. Possesses both acetoacetyl-ACP synthase and acetyl transacylase activities. Its substrate specificity determines the biosynthesis of branched-chain and/or straight-chain of fatty acids.
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