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

## PRODUCT OVERVIEW

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| **Product Name** | 3-oxoacyl-[acyl-carrier-protein] synthase 3 (fabH), Recombinant Protein |
| **Full Product Name** | Recombinant Cupriavidus taiwanensis 3-oxoacyl-[acyl-carrier-protein] synthase 3 (fabH) |
| **Product Gene Name** | fabH recombinant protein |
| **Sequence** | MTKYAKIIGT GSYLPPRRVT NHELAAQLAE KGIETSDEWI VSRSGISARH WAEPDVTSST LAVKAAEQAI EAAGIDRQDI DLIIVATSTP DFVFPSTACI VQEKLGITNH CPAFDLQAVC SGFVYALATA DKFIRSGSHR NVLVIGTEVF SRILDFNDRT TCVLFGDGAG AVVLSASDEP GILSSAMHSD GSHVDILCVP GNVAGGNITG NPFLHMDGQA VFKLAVNVLD KVAREAMEAA SVSPDQVDWL IPHQANIRIM QGTAKKLGLP AERMVATVHE HGNTSAASIP LALDVAVRDG RIRPGHTVLM EGVGGGFTWG AVLLRM |
| **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** | 34,574 Da |
| **Sequence Positions** | 1-326, 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 B3R213 |
| **Species** | Cupriavidus taiwanensis (strain R1 / LMG 19424) (Ralstonia taiwanensis (strain LMG 19424)) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for fabH recombinant protein** | MBS1010131 is a recombinant protein targeting fabH. Also known as Recombinant Cupriavidus taiwanensis 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.

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| **NCBI GI #** | 501321683 |
| **NCBI Accession #** | WP_012353318.1 |
| **UniProt Primary Accession #** | B3R213 |
| **GenBank Nucleotide #** | WP_012353318.1 |
| **NCBI Official Full Name** | 3-oxoacyl-ACP synthase III |

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| **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 |
| **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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