# Pimelyl-[Acyl-Carrier Protein] Methyl Ester Esterase (bioH) Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Pimelyl-[acyl-carrier protein] methyl ester esterase (bioH), Recombinant Protein |
| **Full Product Name** | Recombinant Legionella pneumophila subsp. pneumophila Pimelyl-[acyl-carrier protein] methyl ester esterase (bioH) |
| **Product Gene Name** | bioH recombinant protein |
| **Product Synonym Gene Name** | bioH |
| **Sequence** | MNIHLDKYGQ GMPLVLFHGW GFDSQIWQPI IPYLKPKYQI ILVDLPGFGL TPMMDWESFK KNLLDQLPDK FALAGWSMGG LYATRLAIEE PARVQYLINI TSSPRFISDI DWPGVAEEVF VNFYNNLSKD INKTLKEFIS LQLNKMKCDF KIGNPPSPEG LAFGLEILGT WDFREQLKQI SIPTVYLFGR LDPITPVKTM AIMEKNYPNF KYVLFNRAAH MPFLSHTDLF ITIMDEFIK |
| **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** | 27,607 Da |
| **Sequence Positions** | 1-239, 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 Q5ZVG6 |
| **Species** | Legionella pneumophila subsp. pneumophila (strain Philadelphia 1 / 33152 / DSM 7513) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for bioH recombinant protein** | MBS1330935 is a recombinant protein targeting bioH. Also known as Recombinant Legionella pneumophila subsp. pneumophila Pimelyl-[acyl-carrier protein] methyl ester esterase (bioH). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of bioH 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 bioH. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 499249663 |
| **NCBI GeneID** | 19833039 |
| **NCBI Accession #** | WP_010947203.1 |
| **UniProt Primary Accession #** | Q5ZVG6 |

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| **UniProt Related Accession #** | Q5ZVG6 |
| **GenBank Nucleotide #** | WP_010947203.1 |
| **NCBI Official Full Name** | pimeloyl-ACP methyl ester esterase |
| **NCBI Official Symbol** | bioH |
| **UniProt Protein Name** | Pimeloyl-[acyl-carrier protein] methyl ester esterase |
| **UniProt Synonym Protein Names** | Biotin synthesis protein BioH |
| **Protein Family** | Pimeloyl-[acyl-carrier protein] methyl ester esterase |
| **UniProt Gene Name** | bioH |
| **NCBI Protein Information** | biotin biosynthesis protein BioH |
| **UniProt Comments for bioH** | The physiological role of BioH is to remove the methyl group introduced by BioC when the pimeloyl moiety is complete. It allows to synthesize pimeloyl-ACP via the fatty acid synthetic pathway through the hydrolysis of the ester bonds of pimeloyl-ACP esters. |
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