# Phosphomethylpyrimidine Synthase (thiC) Bacteroides Thetaiotaomicron Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Phosphomethylpyrimidine synthase (thiC), Recombinant Protein |
| **Full Product Name** | Recombinant Bacteroides thetaiotaomicron Phosphomethylpyrimidine synthase (thiC), partial |
| **Product Gene Name** | thiC recombinant protein |
| **Product Synonym Gene Name** | thiC |
| **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** | 63,833 Da |
| **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 Q8AA15 |
| **Species** | Bacteroides thetaiotaomicron (strain 29148 / DSM 2079 / 10582 / E50 / VPI-5482) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for thiC recombinant protein** | MBS1484843 is a recombinant protein targeting thiC. Also known as Recombinant Bacteroides thetaiotaomicron Phosphomethylpyrimidine synthase (thiC), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of thiC 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 thiC. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 29346060 |
| **NCBI GeneID** | 1072410 |
| **NCBI Accession #** | NP_809563.1 |
| **UniProt Primary Accession #** | Q8AA15 |
| **UniProt Related Accession #** | Q8AA15 |
| **GenBank Nucleotide #** | NC_004663.1 |
| **NCBI Official Full Name** | thiamine biosynthesis protein ThiC |
| **NCBI Official Symbol** | BT_0650 |

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| **UniProt Protein Name** | Phosphomethylpyrimidine synthase |
| **UniProt Synonym Protein Names** | Hydroxymethylpyrimidine phosphate synthase |
| **Protein Family** | Phosphomethylpyrimidine synthase |
| **UniProt Gene Name** | thiC |
| **UniProt Synonym Gene Names** | HMP-P synthase; HMP-phosphate synthase; HMPP synthase |
| **NCBI Protein Information** | thiamine biosynthesis protein ThiC |
| **UniProt Comments for thiC** | Catalyzes the synthesis of the hydroxymethylpyrimidine phosphate (HMP-P) moiety of thiamine from aminoimidazole ribotide (AIR) in a radical S-adenosyl-L-methionine (SAM)-dependent reaction. |
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