# Thiamine-Phosphate Synthase (thiE) Prochlorococcus Marinus Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Thiamine-phosphate synthase (thiE), Recombinant Protein |
| **Full Product Name** | Recombinant Prochlorococcus marinus Thiamine-phosphate synthase (thiE) |
| **Product Gene Name** | thiE recombinant protein |
| **Product Synonym Gene Name** | thiE |
| **Sequence** | MSVTPNPDQH VAQLIDANLD RAREGLRVIE DWCRFSLKNK DMVITLKNWR QQLGKEHYEI YKNARSSSSD QSAGLSHPAQ KERILPQQIL SANFARIQEA LRVIEEFSRI SHPKLSKISA QIRYEIYDLE VIILKISNLN MLDEKLKSCK LCLITRTHPE LIKTVLLALK AGVTMIQYRC KETPDNQMIA EAKELASICK SYNSLFLIND RADIALAVDA DGVHLGQKDM PIQTARKIIG HQKIIGLSTH SLEEIQNATS QGCNYIGIGP IFKTKSKQND LSLGIDFFSK INLKTNLPWF AIGGINKDNI DKIKEVGIKR VAVINAIMGA EDPYLASKEL LGKLKK |
| **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** | 38,944 Da |
| **Sequence Positions** | 1-346, 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 Q7VAV5 |
| **Species** | Prochlorococcus marinus (strain SARG / CCMP1375 / SS120) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for thiE recombinant protein** | MBS1343457 is a recombinant protein targeting thiE. Also known as Recombinant Prochlorococcus marinus Thiamine-phosphate synthase (thiE). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of thiE 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 thiE. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 33240797 |
| **NCBI GeneID** | 1462729 |
| **NCBI Accession #** | NP_875739.1 |
| **UniProt Primary Accession #** | Q7VAV5 |
| **UniProt Related Accession #** | Q7VAV5 |

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| **GenBank Nucleotide #** | NC_005042.1 |
| **NCBI Official Full Name** | Thiamine monophosphate synthase |
| **NCBI Official Symbol** | thiE |
| **UniProt Protein Name** | Thiamine-phosphate synthase |
| **UniProt Synonym Protein Names** | Thiamine-phosphate pyrophosphorylase |
| **Protein Family** | Putative thiamine-phosphate synthase |
| **UniProt Gene Name** | thiE |
| **UniProt Synonym Gene Names** | TP synthase; TPS; TMP pyrophosphorylase; TMP-PPase |
| **NCBI Protein Information** | Thiamine monophosphate synthase |
| **UniProt Comments for thiE** | Condenses 4-methyl-5-(beta-hydroxyethyl)thiazole monophosphate (THZ-P) and 2-methyl-4-amino-5-hydroxymethyl pyrimidine pyrophosphate (HMP-PP) to form thiamine monophosphate (TMP). |
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