Phosphomethylpyrimidine Synthase (thiC) Synechococcus Sp. Recombinant Protein

PRODUCT OVERVIEW

Product Name	Phosphomethylpyrimidine synthase (thiC), Recombinant Protein
Full Product Name	Recombinant Synechococcus sp. Phosphomethylpyrimidine synthase (thiC)
Product Gene Name	thiC recombinant protein
Product Synonym Gene Name	thiC
Sequence	MRTQWVSARK GQANVSQMHY ARKGVVTEEM AYVAKRENLP ESLIMEEVAR GRMIIPANIN HTNLEPMAIG IASSCKVNAN IGASPNASDA AEEVNKLKLA VKYGADTVMD LSTGGVNLDE VRTAIIGASP VPIGTVPVYQ ALESVHGSIE KLDEDDFLHI IEKHCQQGVD YQTIHAGLLI EHLPKVKGRI TGIVSRGGGI LAQWMLYHHR QNPLFTRFDD ICEIFKRYDC TFSLGDSLRP GCQHDASDAA QLAELKTLGE LTRRAWKHDV QVMVEGPGHV PLDQIEFNVK KQMEECNEAP FYVLGPLVTD IAPGYDHITS AIGAAMAGWH GTAMLCYVTP KEHLGLPNAE DVREGLIAYK IAAHAADIAR HRPGARDRDD ELSRARYAFD WNKQFELSLD PERAKEYHDE TLPADIYKQA EFCSMCGPKH CPMQTKITDE DLEGLQKVLE SQGAAELASV KLDKAE
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	51,517 Da
Sequence Positions	1-466, 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 Q3B0I6
Species	Synechococcus sp. (strain CC9902)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for thiC recombinant protein	MBS1308400 is a recombinant protein targeting thiC. Also known as Recombinant Synechococcus sp. Phosphomethylpyrimidine synthase (thiC). 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.

NCBI GI #	499678272
NCBI Accession #	WP_011359006.1
UniProt Primary Accession #	Q3B0I6
GenBank Nucleotide #	WP_011359006.1

NCBI Official Full Name	phosphomethylpyrimidine synthase
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
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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