Thiamine-Phosphate Synthase (thiE) Pelodictyon Luteolum Recombinant Protein

PRODUCT OVERVIEW

Product Name	Thiamine-phosphate synthase (thiE), Recombinant Protein
Full Product Name	Recombinant Pelodictyon luteolum Thiamine-phosphate synthase (thiE)
Product Gene Name	thiE recombinant protein
Product Synonym Gene Name	thiE
Sequence	MNSPHSPILC VITDEDTSPL DMVPRALRGG ANMIQLRRKT ASGRELCRLA EALIPFCRQA GALFIINDRA DIALATDADG VHLGQDDLPV AAARQLFGPG KIIGASTSSV DEALKAERNG ADYAGFGHIF PTGSKAKGYK PLGPEAISLA AAALRIPLIA IGGITRENAG PLISRGAAGI AVISAVTKAE SPEEAARSLM AIMNTTRAGE GT
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	21,895 Da
Sequence Positions	1-212, 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 Q3B4B1
Species	Pelodictyon luteolum (strain DSM 273) (Chlorobium luteolum (strain DSM 273))
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for thiE recombinant protein	MBS1386877 is a recombinant protein targeting thiE. Also known as Recombinant Pelodictyon luteolum 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.

NCBI GI #	499676960
NCBI Accession #	WP_011357694.1
UniProt Primary Accession #	Q3B4B1
GenBank Nucleotide #	WP_011357694.1
NCBI Official Full Name	thiamine phosphate synthase
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
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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