Thiazole Synthase 1 (thiG1) Pelobacter Carbinolicus Recombinant Protein

PRODUCT OVERVIEW

Product Name	Thiazole synthase 1 (thiG1), Recombinant Protein
Full Product Name	Recombinant Pelobacter carbinolicus Thiazole synthase 1 (thiG1)
Product Gene Name	thiG1 recombinant protein
Product Synonym Gene Name	thiG1
Sequence	MDELVIAGRS FSSRLMVGTG KFASNSLMAD ALAASGSQIV TVALRRVDID RPEDDLLAHI DRDKYLLLPN TSGARDADEA VRLARLARAA GCEPWVKLEV TPDPYYLLPD PIETLKAAEI LVKEGFVVLP YINADPVLAK HLQEAGTATV MPLGAPIGTN KGVRTRDNIA IIIEQAIVPV VVDAGLGAPS HVAEAMEMGA DAVLVNTALA VTPDPAGMAN AFRLGVEAGR RAFLAGLPAQ QQKAEASSPL TGFLRDEQ
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	27,254 Da
Sequence Positions	1-258, 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 Q3A7P5
Species	Pelobacter carbinolicus (strain DSM 2380 / Gra Bd 1)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for thiG1 recombinant protein	MBS1324816 is a recombinant protein targeting thiG1. Also known as Recombinant Pelobacter carbinolicus Thiazole synthase 1 (thiG1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of thiG1 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 thiG1. It may not necessarily be applicable to this product.

NCBI GI #	499659283
NCBI Accession #	WP_011340017.1
UniProt Primary Accession #	Q3A7P5
GenBank Nucleotide #	WP_011340017.1
NCBI Official Full Name	thiazole synthase

UniProt Protein Name	Thiazole synthase 1
Protein Family	Thiazole synthase
UniProt Gene Name	thiG1
UniProt Comments for thiG1	Catalyzes the rearrangement of 1-deoxy-D-xylulose 5-phosphate (DXP) to produce the thiazole phosphate moiety of thiamine. Sulfur is provided by the thiocarboxylate moiety of the carrier protein ThiS. In vitro, sulfur can be provided by H2S.
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