Thiazole Synthase (thiG) Clostridium Difficile Recombinant Protein

PRODUCT OVERVIEW

Product Name	Thiazole synthase (thiG), Recombinant Protein
Full Product Name	Recombinant Clostridium difficile Thiazole synthase (thiG)
Product Gene Name	thiG recombinant protein
Product Synonym Gene Name	thiG
Sequence	MDKLVLGGHE FNSRLLVGTG KYGSNNILPE VIKESGSEII TMALRRVDLD NKQENILTYI PKEMTILPNT SGATNAEEAV RIARISRKMG CGDFIKIEVI SDTRYLLPDN EETIKATKIL ADEGFIVLPY MTPDLYAGRR LIEANAAAVM PLGAPIGSNR GLQMKEMIRI MIDELDIPII VDAGIGKPSQ AMEAMEMGAD AVLVNTAIAS AGDPVQMARA FKLAVEGGRE AYIAKTGNVS EFANASSPLT GFLGNL
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	27,558 Da
Sequence Positions	1-256, 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 Q186R1
Species	Clostridium difficile (strain 630)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for thiG recombinant protein	MBS1330070 is a recombinant protein targeting thiG. Also known as Recombinant Clostridium difficile Thiazole synthase (thiG). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of thiG 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 thiG. It may not necessarily be applicable to this product.

NCBI GI #	497575452
NCBI GeneID	31353308
NCBI Accession #	WP_009889636.1
UniProt Primary Accession #	Q186R1
GenBank Nucleotide #	WP_009889636.1

NCBI Official Full Name	MULTISPECIES: thiazole synthase
NCBI Official Symbol	CD630DERM_RS09465
UniProt Protein Name	Thiazole synthase
Protein Family	Thiazole synthase
UniProt Gene Name	thiG
NCBI Protein Information	thiazole synthase
UniProt Comments for thiG	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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