Bifunctional Protein Thio/Thig (Thio/Thig) (thiO) Synechocystis Sp. Recombinant Protein

PRODUCT OVERVIEW

Product Name	Bifunctional protein ThiO/ThiG (thiO/thiG), Recombinant Protein
Full Product Name	Recombinant Synechocystis sp. Bifunctional protein ThiO/ThiG (thiO/thiG), partial
Product Gene Name	thiO recombinant protein
Product Synonym Gene Name	thiO\/thiG
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	70,271 Da
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 Q55710
Species	Synechocystis sp. (strain PCC 6803 / Kazusa)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for thiO recombinant protein	MBS1343458 is a recombinant protein targeting thiO. Also known as Recombinant Synechocystis sp. Bifunctional protein ThiO/ThiG (thiO/thiG), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of thiO 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 thiO. It may not necessarily be applicable to this product.

NCBI GI #	18202565
NCBI Accession #	Q55710.1
UniProt Primary Accession #	Q55710
UniProt Secondary Accession #	Q55064
NCBI Official Full Name	Bifunctional protein ThiO/ThiG
UniProt Protein Name	Bifunctional protein ThiO/ThiG
Protein Family	Glycine oxidase
UniProt Gene Name	thiO/thiG

UniProt Comments for thiO	Catalyzes the FAD-dependent oxidative deamination of glycine. Is essential for thiamine biosynthesis since the oxidation of glycine catalyzed by ThiO generates the glycine imine intermediate (dehydroglycine) required for the biosynthesis of the thiazole ring of thiamine pyrophosphate.
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