Alpha,alpha-Trehalose-Phosphate Synthase [UDP-Forming] A (tpsA) Dictyostelium Discoideum Recombinant Protein

PRODUCT OVERVIEW

Product Name	Alpha,alpha-trehalose-phosphate synthase [UDP-forming] A (tpsA), Recombinant Protein
Full Product Name	Recombinant Dictyostelium discoideum Alpha,alpha-trehalose-phosphate synthase [UDP-forming] A (tpsA), partial
Product Gene Name	tpsA recombinant protein
Product Synonym Gene Name	tpsA
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	83,717 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 Q54K57
Species	Dictyostelium discoideum (Slime mold)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for tpsA recombinant protein	MBS1425812 is a recombinant protein targeting tpsA. Also known as Recombinant Dictyostelium discoideum Alpha,alpha-trehalose-phosphate synthase [UDP-forming] A (tpsA), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of tpsA 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 tpsA. It may not necessarily be applicable to this product.

NCBI GI #	66806769
NCBI GeneID	8626202
NCBI Accession #	XP_637107.1
UniProt Primary Accession #	Q54K57
GenBank Nucleotide #	XM_632015.1
NCBI Official Full Name	hypothetical protein DDB_G0287657
NCBI Official Symbol	tpsA
UniProt Protein Name	Alpha,alpha-trehalose-phosphate synthase [UDP-forming] A

UniProt Synonym Protein Names	Trehalose-6-phosphate synthase A; UDP-glucose-glucosephosphate glucosyltransferase A
Protein Family	Alpha,alpha-trehalose-phosphate synthase
UniProt Gene Name	tpsA
NCBI Protein Information	alpha,alpha-trehalose-phosphate synthase; trehalose 6-phosphate synthase
UniProt Comments for tpsA	Synthesizes trehalose 6-phosphate, the precursor for the production of trehalose, the main carbohydrate storage reserve of the dormant spore. Trehalose accumulates in both prestalk and prespore cells and then is rapidly metabolized during terminal differentiation of stalk cells, while being stored in spores, where it serves as the principal energy and carbon source for germination.
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