Probable Sucrose-Phosphate Synthase 4 (SPS4) Oryza Sativa Subsp. Japonica Recombinant Protein

PRODUCT OVERVIEW

Product Name	Probable sucrose-phosphate synthase 4 (SPS4), Recombinant Protein
Full Product Name	Recombinant Oryza sativa subsp. japonica Probable sucrose-phosphate synthase 4 (SPS4), partial
Product Gene Name	SPS4 recombinant protein
Product Synonym Gene Name	SPS4
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	118,725 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 Q6ZHZ1
Species	Oryza sativa subsp. japonica (Rice)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for SPS4 recombinant protein	MBS1285439 is a recombinant protein targeting SPS4. Also known as Recombinant Oryza sativa subsp. japonica Probable sucrose-phosphate synthase 4 (SPS4), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of SPS4 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 SPS4. It may not necessarily be applicable to this product.

NCBI GI #	1002291436
NCBI GeneID	4345220
NCBI Accession #	XP_015650062.1
UniProt Primary Accession #	Q6ZHZ1
UniProt Secondary Accession #	Q6UU32; A0A0P0XEF8
UniProt Related Accession #	Q6ZHZ1
GenBank Nucleotide #	XM_015794576.1
NCBI Official Full Name	probable sucrose-phosphate synthase 4

NCBI Official Symbol	LOC4345220
NCBI Official Synonym Symbols	SPS4; SPS8; OsSPS4F; OJ1115_A07.105
UniProt Protein Name	Probable sucrose-phosphate synthase 4
UniProt Synonym Protein Names	Sucrose phosphate synthase 4F; OsSPS4F; UDP-glucose-fructose-phosphate glucosyltransferase
Protein Family	Probable sucrose-phosphate synthase
UniProt Gene Name	SPS4
UniProt Synonym Gene Names	SPS8; OsSPS4F
NCBI Protein Information	probable sucrose-phosphate synthase 4
UniProt Comments for SPS4	Plays a role in photosynthetic sucrose synthesis by catalyzing the rate-limiting step of sucrose biosynthesis from UDP-glucose and fructose- 6-phosphate. Involved in the regulation of carbon partitioning in the leaves of plants. May regulate the synthesis of sucrose and therefore play a major role as a limiting factor in the export of photoassimilates out of the leaf. Plays a role for sucrose availability that is essential for plant growth and fiber elongation ().
Research Articles on SPS4	**1.** SPS4 is phosphorylated by CPK17 in a calcium-dependent manner.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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