

Sucrose-phosphate synthase 1 Recombinant Protein | SPS1 recombinant protein

Recombinant Arabidopsis thaliana (Mouse-ear cress) Sucrose-phosphate synthase 1

CATALOG # AAA117329	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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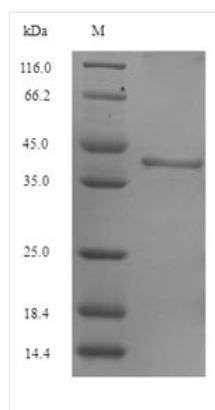
PRODUCT SYNONYMS

Sucrose-phosphate synthase 1; Recombinant Arabidopsis thaliana (Mouse-ear cress) Sucrose-phosphate synthase 1; Sucrose-phosphate synthase 1F; AtSPS1F; Sucrose-phosphate synthase 5.1; AtSPS5.1; UDP-glucose-fructose-phosphate glucosyltransferase; SPS1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	768-995. Partial.
Sequence	VVIALDFDGE EDTLEATKRI LDAVEKERAE GSVGFILSTS LTISEVQSFL VSGGLNPND FAFICNSGSD LHYTSLNND GPFVVDFFYYH SHIEYRWGGE GLRKTILIRWA SSLNEKKADN DEQIVTLAEH LSTDYCYTFT VKKPAAVPPV RELRKLLRIQ ALRCHVVYSQ NGTRINVIPV LASRIQALRY LFVRWGIDMA KMAVFGESG DTDYEGLLGG LHKSVVLK
Sequence Length	995
Species	Arabidopsis thaliana (Mouse-ear cress)
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for SPS1 recombinant protein

Plays a major 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. Required for nectar secretion.

Product Categories/Family for SPS1 recombinant protein	Signal Transduction
References	"Sequence and analysis of chromosome 5 of the plant Arabidopsis thaliana." Tabata S., Kaneko T., Nakamura Y., Kotani H., Kato T., Asamizu E., Miyajima N., Sasamoto S., Kimura T., Hosouchi T., Kawashima K., Kohara M., Matsumoto M., Matsuno A., Muraki A., Nakayama S., Nakazaki N., Naruo K. Fransz P.F. Nature 408:823-826(2000)

NCBI AND UNIPROT INFORMATION

NCBI GI #	15241313
NCBI GeneID	832150
NCBI Accession #	NP_197528.1
NCBI GenBank Nucleotide #	NM_122035.2
UniProt Accession #	Q94BT0; Q0WLS7
Molecular Weight	41.5 kDa
NCBI Official Full Name	sucrose phosphate synthase 1F
NCBI Official Symbol	SPS1F
NCBI Official Synonym Symbols	ATSPS1F; F5O24.170; F5O24_170; SPS1F; sucrose phosphate synthase 1F
NCBI Protein Information	sucrose phosphate synthase 1F
UniProt Protein Name	Sucrose-phosphate synthase 1
UniProt Gene Name	SPS1
UniProt Synonym Gene Names	SPSA1; AtSPS1F; AtSPS5.1
UniProt Entry Name	SPSA1_ARATH

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.