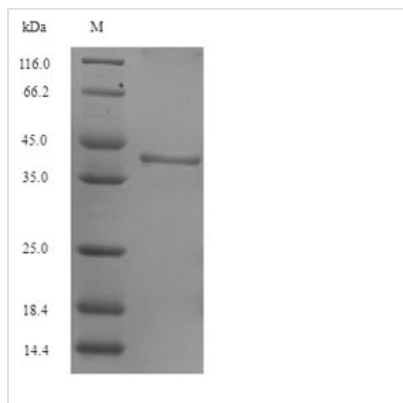




Recombinant Arabidopsis thaliana Sucrose-phosphate synthase 1 (SPS1), partial

Product Code	CSB-EP856727DOA
Relevance	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.
Abbreviation	Recombinant Mouse-ear cress SPS1 protein, partial
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q94BT0
Alias	Sucrose-phosphate synthase 1F Short name: AtSPS1F Sucrose-phosphate synthase 5.1 Short name: AtSPS5.1 UDP-glucose-fructose-phosphate glucosyltransferase
Product Type	Recombinant Protein
Immunogen Species	Arabidopsis thaliana (Mouse-ear cress)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	VVIALDFDGEEDTLEATKRILDAVEKERAEGSVGFILSTSLTISEVQSFLVSGGL NPNDFDAFICNSGSDLHYTSLNNEGDPFVDFYYHSHIEYRWGGEGRLKTLIR WASSLNEKKADNDEQIVTLAEHLSTDYCYTFTVKKPAAVPPVRELKLLRIQAL RCHVVYSQNGTRINVIPVLASRIQALRYLFVRWIDMAKMAVFGESGDTDYE GLLGGLHKSVVLK
Research Area	Signal Transduction
Source	E.coli
Target Names	SPS1
Expression Region	768-995aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged
Mol. Weight	41.5kDa
Protein Length	Partial
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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