Probable sucrose-phosphate synthase (SPS), Recombinant Protein

CD BioSciences
Plant Protein

Cat *RP15366*

Species
Solanum tuberosum (Potato)

Full Product Name
Recombinant Solanum tuberosum Probable sucrose-phosphate synthase (SPS), partial

Product Gene Name
SPS recombinant protein

Product Synonym Gene Name
SPS

Purity
Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)

Format
Lyophilized or liquid (Format to be determined during the manufacturing process)

Host
E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight
118,292 Da

Storage
Store at -20℃. For long-term storage, store at -20℃ or -80℃. Store working aliquots at 4℃ for up to one week. Repeated freezing and thawing is not recommended.

Protein Family
Probable sucrose-phosphate synthase

NCBI Accession
Q43845.1

NCBI GI
3915019

NCBI GeneID
102577833

NCBI Official Full Name
Probable sucrose-phosphate synthase

NCBI Official Symbol
SPS

NCBI Protein Information
probable sucrose-phosphate synthase

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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UniProt Gene Name
SPS

UniProt Protein Name
Probable sucrose-phosphate synthase

UniProt Synonym Protein Names
UDP-glucose-fructose-phosphate glucosyltransferase

UniProt Primary Accession
Q43845

UniProt Related Accession
Q43845

UniProt Comments
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 .

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