Creative Enzymes®

sucrose-phosphate synthase

Cat. No. EXWM-2365

Lot. No. (See product label)

Introduction

Description	Requires Mg2+ or Mn2+ for maximal activity. The enzyme from Synechocystis sp. strain PCC 6803 is not specific for UDP-glucose as it can use ADP-glucose and, to a lesser extent, GDP-glucose as substrates. The enzyme from rice leaves is activated by glucose 6-phosphate but that from cyanobacterial species is not. While the reaction catalysed by this enzyme is reversible, the enzyme usually works in concert with EC 3.1.3.24, sucrose-phosphate phosphatase, to form sucrose, making the above reaction essentially irreversible. The F in sucrose 6F-phosphate is used to indicate that the fructose residue of sucrose carries the substituent.
Synonyms	UDP-glucose-fructose-phosphate glucosyltransferase; sucrosephosphate-UDP glucosyltransferase; UDP-glucose-fructose-phosphate glucosyltransferase; SPS; uridine diphosphoglucose-fructose phosphate glucosyltransferase; sucrose 6-phosphate synthase; sucrose phosphate synthetase; sucrose phosphate-uridine diphosphate glucosyltransferase; sucrose phosphate synthase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 2.4.1.14
CAS No.	9030-06-2
Reaction	UDP-glucose + D-fructose 6-phosphate = UDP + sucrose 6F-phosphate
Notes	This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.

Storage and Shipping Information

Storage	Store it at +4 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.