

Sucrose Phosphorylase, Recombinant

Cat. No. NATE-0684

Lot. No. (See product label)

Introduction

Description Sucrose phosphorylase (E.C. 2.4.1.7) is an important enzyme in the metabolism of

sucrose and regulation of other metabolic intermediates. Sucrose phosphorylase is in the class of hexosyltransferases. More specifically it has been placed in the retaining glycoside hydrolases family although it catalyzes a transglycosidation rather than hydrolysis. Sucrose phosphorylase catalyzes the conversion of sucrose

to D-fructose and α -D-glucose-1-phosphate. It has been shown in multiple experiments that the enzyme catalyzes this conversion by a double displacement

mechanism.

Applications Sucrose phosphorylase has been used in a study to assess the enzymatic synthesis

of stable, odorless, and powdered furanone glucosides. Sucrose phosphorylase has also been used in a study to investigate the novel transglucosylating reaction with

carboxylic compounds.

Synonyms Sucrose Phosphorylase; EC 2.4.1.7; 9074-06-0; sucrose glucosyltransferase;

disaccharide glucosyltransferase; Sucrose:orthophosphate α -D-glucosyltransferase

Product Information

Source E. coli

Form lyophilized powder; Contains sucrose as stabilizer.

EC Number EC 2.4.1.7

CAS No. 9074-06-0

Molecular Weight mol wt 56 kDa by SDS-PAGE

Activity > 45 units/mg solid

Unit Definition One unit will produce 1.0 μmole of D-fructose from sucrose per min with the

corresponding reduction of NADP to NADPH at pH 7.6, at 25 $^{\circ}\text{C}.$

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Storage and Shipping Information

Storage –20°C

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