

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 Iyophilized powder; Contains sucrose as stabilizer.

EC Number EC 2.4.1.7

CAS No. 9074-06-0

Molecular

mol wt 56 kDa by SDS-PAGE

Weight

Activity > 45 units/mg solid

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

Definition NADP to NADPH at pH 7.6, at 25°C.

Storage and Shipping Information

Storage −20°C

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