

Sucrose phosphorylase 13 A from Bifidobacterium adolescentis, Recombinant

Cat. No. NATE-1532

Lot. No. (See product label)

Introduction

Description Sucrose phosphorylase (EC. 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.

Synonyms Sucrose Phosphorylase; EC 2.4.1.7; sucrose glucosyltransferase; disaccharide

glucosyltransferase; Sucrose:orthophosphate α -D-glucosytransferase

Product Information

Species Bifidobacterium adolescentis

Source E. coli

Form 35 mM NaHepes buffer, pH 7.5, 750 mM NaCl, 200 mM imidazol, 3.5 mM CaCl2,

0.02% sodium azide and 25% (v/v) glycerol

EC Number EC. 2.4.1.7

CAS No. 9074-06-0

Molecular Weight 58.2 kDa

Purity >90% as judged by SDS-PAGE

Concentration 1 mg/mL

Optimum pH 6.5-7.0

Optimum temperature 30 °C

Specificity Sucrose; D- and L-arabinose, D- and L-arabitol and xylitol

Storage and Shipping Information

Storage This enzyme is shipped at room temperature but should be stored at -20 °C.

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