

## Oligo- $\alpha$ -1,6-Glucosidase 13A from *Bifidobacterium adolescentis*, Recombinant

Cat. No. NATE-1447

Lot. No. (See product label)

### Introduction

**Description** Sucrase-isomaltase is a glucosidase enzyme located in on the brush border of the small intestine with system name oligosaccharide 6- $\alpha$ -glucohydrolase. Sucrase-isomaltase is a type II transmembrane glycoprotein located in the brush border of the small intestine. It has preferential expression in the apical membranes of enterocytes. The enzyme's purpose is to digest dietary carbohydrates such as starch, glucose, and isomaltose. By further processing the broken-down products, energy in the form of ATP can be generated.

**Synonyms** EC 3.2.1.10; oligo-1,6-glucosidase; limit dextrinase; isomaltase; exo-oligo-1,6-glucosidase; dextrin 6 $\alpha$ -glucanohydrolase;  $\alpha$ -limit dextrinase; dextrin 6-glucanohydrolase; oligosaccharide  $\alpha$ -1,6-glucohydrolase; Sucrase-isomaltase

### Product Information

<b>Species</b>	<i>Bifidobacterium adolescentis</i>
<b>Source</b>	<i>E. coli</i>
<b>Form</b>	35 mM NaHepes buffer, pH 7.5, 750 mM NaCl, 200 mM imidazol, 3.5 mM CaCl <sub>2</sub> , 0.02% sodium azide and 25% (v/v) glycerol
<b>EC Number</b>	EC 3.2.1.10
<b>Molecular Weight</b>	68.6 kDa
<b>Purity</b>	>90% by SDS-PAGE
<b>Concentration</b>	1 mg/mL
<b>Optimum pH</b>	6.5
<b>Optimum temperature</b>	37 °C
<b>Specificity</b>	Isomaltose and PNP- $\alpha$ -glucoside

### Storage and Shipping Information

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