

Native *Saccharomyces cerevisiae* α -Glucosidase

Cat. No. NATE-0752

Lot. No. (See product label)

Introduction

Description Alpha-glucosidase is a glucosidase located in the brush border of the small intestine that acts upon 1,4-alpha bonds. This is in contrast to beta-glucosidase. Alpha-glucosidase breaks down starch and disaccharides to glucose. Maltase, a similar enzyme that cleaves maltose, is nearly functionally equivalent.

Applications For the determination of α -amylase and the synthesis of various 1'-O-sucrose and 1-O-fructose esters. α -glucosidase is used for the determination of α -amylase and the synthesis of various 1'-O-sucrose and 1-O-fructose esters. It was also used in the measurement of glycosidase inhibition.

Synonyms α -glucosidase; maltase; glucoinvertase; glucosidosucrase; maltase-glucoamylase; α -glucopyranosidase; glucosidoinvertase; α -D-glucosidase; α -glucoside hydrolase; α -1,4-glucosidase; EC 3.2.1.20; 9001-42-7

Product Information

Source *Saccharomyces cerevisiae*

Form lyophilized powder.

EC Number EC 3.2.1.20

CAS No. 9001-42-7

Molecular Weight Mr ~63 kDa

Activity 4-8 units/mg; > 10 units/mg protein (using p-nitrophenyl α -D-glucoside as substrate.)

Pathway Amino acid transport across the plasma membrane, organism-specific biosystem; Galactose metabolism, conserved biosystem; Transmembrane transport of small molecules, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Starch and sucrose metabolism, conserved biosystem; Transmembrane transport of small molecules, organism-specific biosystem

Function alpha-1,4-glucosidase activity; cation binding; maltose alpha-glucosidase activity; hydrolase activity; maltose alpha-glucosidase activity

Unit Definition One unit will liberate 1.0 μ mole of D-glucose from p-nitrophenyl α -D-glucoside per min at pH 6.8 at 37°C.

Storage and Shipping Information

Storage -20°C