Creative Enzymes®

Glucoamylase 97A from Bacteroides thetaiotaomicron, Recombinant

Cat. No. NATE-1308

Lot. No. (See product label)

Introduction

Description	Glucan 1,4-alpha-glucosidase is an enzyme located on the brush border of the small intestine with system name 4-alpha-D-glucan glucohydrolase. This enzyme catalyses the following chemical reaction:Hydrolysis0 of terminal (1->4)-linked alpha-D-glucose residues successively from non-reducing ends of the chains with release of beta-D-glucose. Most forms of the enzyme can rapidly hydrolyse 1,6-alpha-D-glucosidic bonds when the next bond in the sequence is 1,4.
Synonyms	glucoamylase; amyloglucosidase; γ-amylase; lysosomal α-glucosidase; acid maltase; exo-1,4-α-glucosidase; glucose amylase; γ-1,4-glucan glucohydrolase; acid maltase; 1,4-α-D-glucan glucohydrolase; EC 3.2.1.3; 9032-08-0

Product Information

Species	Bacteroides thetaiotaomicron
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 3.2.1.3
CAS No.	9032-08-0
Molecular Weight	84.0 kDa
Purity	>90% by SDS-PAGE
Concentration	1 mg/mL
pH Stability	4.0-12.0
Optimum temperature	45 °C
Specificity	Starch and the artificial substrate 4-methylumbelliferyl α-D-glucoside

Storage and Shipping Information

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