

Glucoamylase 97A from *Bacteroides thetaiotaomicron*, Recombinant

Cat. No. NATE-1308

Lot. No. (See product label)

Introduction

Description Glucan 1,4- α -glucosidase is an enzyme located on the brush border of the small intestine with system name 4- α -D-glucan glucohydrolase. This enzyme catalyses the following chemical reaction: Hydrolysis of terminal (1- \rightarrow 4)-linked α -D-glucose residues successively from non-reducing ends of the chains with release of β -D-glucose. Most forms of the enzyme can rapidly hydrolyse 1,6- α -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.