Creative Enzymes®

oligosaccharide 4-α-D-glucosyltransferase

Cat. No. EXWM-2386

Lot. No. (See product label)

Introduction

Description	The enzyme acts on amylose, amylopectin, glycogen and maltooligosaccharides. No detectable free glucose is formed, indicating the enzyme does not act as a hydrolase. The enzyme from the bacterium Cellvibrio japonicus has the highest activity with maltotriose as a donor, and also accepts maltose, while the enzyme from amoeba does not accept maltose. Oligosaccharides with 1→6 linkages cannot function as donors, but can act as acceptors. Unlike EC 2.4.1.25, 4-α-glucanotransferase, this enzyme can transfer only a single glucosyl residue.
Synonyms	amylase III; 1,4-α-glucan:1,4-α-glucan 4-α-glucosyltransferase; 1,4-α-D-glucan:1,4-α-D-glucan 4-α-D-glucosyltransferase; α-1,4-transglucosylase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 2.4.1.161
CAS No.	9000-92-4
Reaction	Transfers the non-reducing terminal α-D-glucose residue from a (1→4)-α-D-glucan to the 4-position of a free glucose or of a glucosyl residue at the non-reducing terminus of a (1→4)-α-D-glucan, thus bringing about the rearrangement of oligosaccharides
Notes	This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.

Storage and Shipping Information

Storage	Store it at +4 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.