

## oligosaccharide 4- $\alpha$ -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 $\rightarrow$ 6 linkages cannot function as donors, but can act as acceptors. Unlike EC 2.4.1.25, 4- $\alpha$ -glucanotransferase, this enzyme can transfer only a single glucosyl residue.

#### Synonyms

amylase III; 1,4- $\alpha$ -glucan:1,4- $\alpha$ -glucan 4- $\alpha$ -glucosyltransferase; 1,4- $\alpha$ -D-glucan:1,4- $\alpha$ -D-glucan 4- $\alpha$ -D-glucosyltransferase;  $\alpha$ -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  $\alpha$ -D-glucose residue from a (1 $\rightarrow$ 4)- $\alpha$ -D-glucan to the 4-position of a free glucose or of a glucosyl residue at the non-reducing terminus of a (1 $\rightarrow$ 4)- $\alpha$ -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 °C for short term. For long term storage, store it at -20 °C~-80 °C.