

## starch synthase (glycosyl-transferring)

Cat. No. EXWM-2437

Lot. No. (See product label)

### Introduction

#### Description

The accepted name varies according to the source of the enzyme and the nature of its synthetic product, e.g. starch synthase, bacterial glycogen synthase. Similar to EC 2.4.1.11 [glycogen(starch) synthase] but the preferred or mandatory nucleoside diphosphate sugar substrate is ADP- $\alpha$ -D-glucose. The entry covers starch and glycogen synthases utilizing ADP- $\alpha$ -D-glucose.

#### Synonyms

ADP-glucose-starch glucosyltransferase; adenosine diphosphate glucose-starch glucosyltransferase; adenosine diphosphoglucose-starch glucosyltransferase; ADP-glucose starch synthase; ADP-glucose synthase; ADP-glucose transglucosylase; ADP-glucose-starch glucosyltransferase; ADPG starch synthetase; ADPG-starch glucosyltransferase; starch synthetase; ADP-glucose:1,4- $\alpha$ -D-glucan 4- $\alpha$ -D-glucosyltransferase

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 2.4.1.21

#### CAS No.

9030-10-8, 37338-93-5

#### Reaction

$\text{ADP-}\alpha\text{-D-glucose} + [(1\rightarrow4)\text{-}\alpha\text{-D-glucosyl}]_n = \text{ADP} + [(1\rightarrow4)\text{-}\alpha\text{-D-glucosyl}]_{n+1}$

#### 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.