

## glycogen(starch) synthase

Cat. No. EXWM-2336

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 (cf. EC 2.4.1.1, phosphorylase). Glycogen synthase from animal tissues is a complex of a catalytic subunit and the protein glycogenin. The enzyme requires glucosylated glycogenin as a primer; this is the reaction product of EC 2.4.1.186 (glycogenin glucosyltransferase). A similar enzyme utilizes ADP-glucose (EC 2.4.1.21, starch synthase).

**Synonyms** UDP-glucose-glycogen glucosyltransferase; glycogen (starch) synthetase; UDP-glucose-glycogen glucosyltransferase; UDP-glycogen synthase; UDPG-glycogen synthetase; UDPG-glycogen transglucosylase; uridine diphosphoglucose-glycogen glucosyltransferase

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 2.4.1.11

**CAS No.** 9014-56-6

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

**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.