Creative Enzymes®

NDP-glucose-starch glucosyltransferase

Cat. No. EXWM-2471

Lot. No. (See product label)

Introduction

Description	Unlike EC 2.4.1.11, glycogen(starch) synthase and EC 2.4.1.21, starch synthase, which use UDP-glucose and ADP-glucose, respectively, this enzyme can use either UDP- or ADP-glucose. Mutants that lack the Wx (waxy) allele cannot produce this enzyme, which plays an important role in the normal synthesis of amylose. In such mutants, only amylopectin is produced in the endosperm or pollen.
Synonyms	granule-bound starch synthase; starch synthase II (ambiguous); waxy protein; starch granule-bound nucleoside diphosphate glucose-starch glucosyltransferase; granule-bound starch synthase I; GBSSI; granule-bound starch synthase II; GBSSII; GBSS; NDPglucose-starch glucosyltransferase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 2.4.1.242
CAS No.	9031-53-2
Reaction	NDP-glucose + [(1→4)-α-D-glucosyl]n = NDP + [(1→4)-α-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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.