Creative Enzymes®

1,2-diacylglycerol 3-α-glucosyltransferase

Cat. No. EXWM-2575

Lot. No. (See product label)

Introduction

Description	The enzyme from the bacterium Acholeplasma laidlawii, which lacks a cell wall, produces the major non-bilayer lipid in the organism. The enzyme from the bacterium Agrobacterium tumefaciens acts under phosphate deprivation, generating glycolipids as surrogates for phospholipids. The enzyme belongs to the GT4 family of configuration-retaining glycosyltransferases. Many diacylglycerols with long-chain acyl groups can act as acceptors. cf. EC 2.4.1.336, monoglucosyldiacylglycerol synthase.
Synonyms	mgs (gene name); UDP-glucose:diacylglycerol glucosyltransferase; UDP-glucose:1,2-diacylglycerol glucosyltransferase; uridine diphosphoglucose-diacylglycerol glucosyltransferase; UDP-glucose-diacylglycerol glucosyltransferase; UDP-glucose:1,2-diacylglycerol 3-D-glucosyltransferase; UDP-glucose:1,2-diacyl-sn-glycerol 3-D-glucosyltransferase; 1,2-diacylglycerol 3-glucosyltransferase (ambiguous)

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 2.4.1.337
Reaction	UDP-α-D-glucose + a 1,2-diacyl-sn-glycerol = UDP + a 1,2-diacyl-3-O-(α-D-glucopyranosyl)-sn-glycerol
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 ℃.