

## 1,2-diacylglycerol 3- $\alpha$ -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- $\alpha$ -D-glucose + a 1,2-diacyl-sn-glycerol = UDP + a 1,2-diacyl-3-O-( $\alpha$ -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 °C for short term. For long term storage, store it at -20 °C~-80 °C.