Creative Enzymes®

diglucosyl diacylglycerol synthase (1,6-linking)

Cat. No. EXWM-2551

Lot. No. (See product label)

Introduction

Description The enzyme is found in several bacterial species. The enzyme from Bacillus subtilis is specific for glucose. The enzyme from Mycoplasma genitalium can incoporate galactose with similar efficiency, but forms mainly 1,2-diacyl-diglucopyranosyl-sn-glycerol in vivo. The enzyme from Staphylococcus aureus can also form glucosyl-glycero-3-phospho-(1'-sn-glycerol).

Synonyms monoglucosyl diacylglycerol (1→6) glucosyltransferase; MGlcDAG (1→6) glucosyltransferase; DGlcDAG synthase (ambiguous); UGT106B1; ypfP (gene name)

Product Information

Form Liquid or lyophilized powder

EC Number EC 2.4.1.315

Reaction (1) UDP-α-D-glucose + 1,2-diacyl-3-O-(β-D-glucopyranosyl)-sn-glycerol = 1,2-diacyl-3-O-[β-D-glucopyranosyl-(1→6)-O-β-D-glucopyranosyl]-sn-glycerol + UDP; (2) UDP-α-D-glucose + 1,2-diacyl-3-O-[β-D-glucopyranosyl-(1→6)-O-β-D-glucopyranosyl]-sn-glycerol = 1,2-diacyl-3-O-[β-D-glucopyranosyl-(1→6)-β-D-glucopyranosyl-(1→6)-O-β-D-glucopyranosyl]-sn-glycerol + UDP

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 ℃.