

D-inositol-3-phosphate glycosyltransferase

Cat. No. EXWM-2480

Lot. No. (See product label)

Introduction

Description

The enzyme, which belongs to the GT-B fold superfamily, catalyses the first dedicated reaction in the biosynthesis of mycothiol. The substrate was initially believed to be inositol, but eventually shown to be D-myo-inositol 3-phosphate. A substantial conformational change occurs upon UDP binding, which generates the binding site for D-myo-inositol 3-phosphate.

Synonyms

mycothiol glycosyltransferases; MshA; UDP-N-acetyl-D-glucosamine:1D-myo-inositol 3-phosphate α -D-glycosyltransferase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 2.4.1.250

Reaction

UDP-N-acetyl- α -D-glucosamine + 1D-myo-inositol 3-phosphate = 1-O-(2-acetamido-2-deoxy- α -D-glucopyranosyl)-1D-myo-inositol 3-phosphate + 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 °C for short term. For long term storage, store it at -20 °C~-80 °C.