

## 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  $\alpha$ -D-glycosyltransferase

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 2.4.1.250

#### Reaction

UDP-N-acetyl- $\alpha$ -D-glucosamine + 1D-myo-inositol 3-phosphate = 1-O-(2-acetamido-2-deoxy- $\alpha$ -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.