

## sterol 24-C-methyltransferase

Cat. No. EXWM-1945

Lot. No. (See product label)

### Introduction

#### Description

Requires glutathione. Acts on a range of sterols with a 24(25)-double bond in the sidechain. While zymosterol is the preferred substrate it also acts on desmosterol, 5 $\alpha$ -cholesta-7,24-dien-3 $\beta$ -ol, 5 $\alpha$ -cholesta-5,7,24-trien-3 $\beta$ -ol, 4 $\alpha$ -methylzymosterol and others. S-Adenosyl-L-methionine attacks the Si-face of the 24(25) double bond and the C-24 hydrogen is transferred to C-25 on the Re face of the double bond.

#### Synonyms

$\Delta$ 24-methyltransferase;  $\Delta$ 24-sterol methyltransferase; zymosterol-24-methyltransferase; S-adenosyl-4-methionine:sterol  $\Delta$ 24-methyltransferase; SMT1; 24-sterol C-methyltransferase; S-adenosyl-L-methionine: $\Delta$ 24(23)-sterol methyltransferase; phytosterol methyltransferase

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 2.1.1.41

**CAS No.** 37257-07-1

**Reaction** S-adenosyl-L-methionine + 5 $\alpha$ -cholesta-8,24-dien-3 $\beta$ -ol = S-adenosyl-L-homocysteine + 24-methylene-5 $\alpha$ -cholest-8-en-3 $\beta$ -ol

**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.