Creative Enzymes®

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, 5α-cholesta-7,24-dien-3β-ol, 5α-cholesta-5,7,24-trien-3β-ol, 4α-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	Δ24-methyltransferase; Δ24-sterol methyltransferase; zymosterol-24-methyltransferase; S-adenosyl-4-methionine:sterol Δ24-methyltransferase; SMT1; 24-sterol C-methyltransferase; S-adenosyl-L-methionine:Δ24(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 + 5α-cholesta-8,24-dien-3β-ol = S-adenosyl-L-homocysteine + 24-methylene-5α-cholest-8-en-3β-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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.