Creative Enzymes®

squalene synthase

Cat. No. EXWM-2758

Lot. No. (See product label)

Introduction

Description	This microsomal enzyme catalyses the first committed step in the biosynthesis of sterols. The enzyme from yeast requires either Mg2+ or Mn2+ for activity. In the absence of NAD(P)H, presqualene diphosphate (PSPP) is accumulated. When NAD(P)H is present, presqualene diphosphate does not dissociate from the enzyme during the synthesis of squalene from farnesyl diphosphate (FPP). High concentrations of FPP inhibit the production of squalene but not of PSPP.
Synonyms	farnesyltransferase; presqualene-diphosphate synthase; presqualene synthase; squalene synthetase; farnesyl-diphosphate farnesyltransferase; SQS

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 2.5.1.21
CAS No.	9077-14-9
Reaction	2 (2E,6E)-farnesyl diphosphate + NAD(P)H + H+ = squalene + 2 diphosphate + NAD(P)+ (overall reaction); (1a) 2 (2E,6E)-farnesyl diphosphate = diphosphate + presqualene diphosphate; (1b) presqualene diphosphate + NAD(P)H + H+ = squalene + diphosphate + NAD(P)+
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 ℃.