Creative Enzymes®

enoyl-[acyl-carrier-protein] reductase (NADPH, Si-specific)

Cat. No. EXWM-1271

Lot. No. (See product label)

Introduction

Description	One of the activities of EC 2.3.1.86, fatty-acyl-CoA synthase, an enzyme found in yeasts (Ascomycota and the Basidiomycota). Catalyses the reduction of enoyl-acyl-[acyl-carrier protein] derivatives of carbon chain length from 4 to 16. The yeast enzyme is Si-specific with respect to NADP+. cf. EC 1.3.1.39, enoyl-[acyl-carrier-protein] reductase (NADPH, Re-specific) and EC 1.3.1.104, enoyl-[acyl-carrier-protein] reductase (NADPH), which describes enzymes whose stereo-specificity towards NADPH is not known. See also EC 1.3.1.9, enoyl-[acyl-carrier-protein] reductase (NADH).
Synonyms	acyl-ACP dehydrogenase (ambiguous); enoyl-[acyl carrier protein] (reduced nicotinamide adenine dinucleotide phosphate) reductase; NADPH 2-enoyl Co A reductase; enoyl acyl-carrier-protein reductase (ambiguous); enoyl-ACP reductase (ambiguous); acyl-[acyl-carrier-protein]:NADP+ oxidoreductase (B-specific); acyl-[acyl-carrier protein]:NADP+ oxidoreductase (B-specific); enoyl-[acyl-carrier-protein] reductase (NADPH, B-specific)

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 1.3.1.10
CAS No.	37251-09-5
Reaction	an acyl-[acyl-carrier protein] + NADP+ = a trans-2,3-dehydroacyl-[acyl-carrier protein] + NADPH + H+
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 ℃.