Creative Enzymes®

enoyl-[acyl-carrier-protein] reductase (NADH)

Cat. No. EXWM-1359

Lot. No. (See product label)

Introduction

Description The enzyme catalyses an essential step in fatty acid biosynthesis, the reduction of the 2,3-double bond in enoyl-acyl-[acyl-carrier-protein] derivatives of the elongating fatty acid moiety. The enzyme from the bacterium Escherichia coli accepts substrates with carbon chain length from 4 to 18. The enzyme from the bacterium Mycobacterium tuberculosis prefers substrates with carbon chain length from 12 to 24 carbons.

Synonyms enoyl-[acyl carrier protein] reductase; enoyl-ACP reductase; NADH-enoyl acyl carrier protein reductase; NADH-specific enoyl-ACP reductase; acyl-[acyl-carrier-protein]:NAD+ oxidoreductase; fabI (gene name); inhA (gene name)

Product Information

Form Liquid or lyophilized powder

EC Number EC 1.3.1.9

CAS No. 37251-08-4

Reaction an acyl-[acyl-carrier protein] + NAD+ = a trans-2,3-dehydroacyl-[acyl-carrier protein] + NADH + 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 ℃.