Creative Enzymes®

long-chain acyl-[acyl-carrier-protein] reductase

Cat. No. EXWM-1183

Lot. No. (See product label)

Introduction

Description	Catalyses the reaction in the opposite direction. This enzyme, purified from the cyanobacterium Synechococcus elongatus PCC 7942, catalyses the NAD(P)H-dependent reduction of an activated fatty acid (acyl-[acp]) to the corresponding aldehyde. Together with EC 4.1.99.5, octadecanal decarbonylase, it is involved in alkane biosynthesis. The natural substrates of the enzyme are C16 and C18 activated fatty acids. Requires Mg2+.
Synonyms	long-chain acyl-[acp] reductase; fatty acyl-[acyl-carrier-protein] reductase; acyl-[acp] reductase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 1.2.1.80
Reaction	a long-chain aldehyde + an [acyl-carrier protein] + NAD(P)+ = a long-chain acyl-[acyl-carrier protein] + NAD(P)H + 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 ℃.