

aldehyde oxygenase (deformylating)

Cat. No. EXWM-4937

Lot. No. (See product label)

Introduction

Description Contains a diiron center. Involved in the biosynthesis of alkanes. The enzyme from

the cyanobacterium Nostoc punctiforme PCC 73102 is only active in vitro in the presence of ferredoxin, ferredoxin reductase and NADPH, and produces mostly C15 and C17 alkanes. The enzyme from pea (Pisum sativum) produces alkanes of chain length C18 to C32 and is inhibited by metal-chelating agents. The substrate for this

enzyme is formed by EC 1.2.1.80, acyl-[acyl-carrier protein] reductase.

Synonyms decarbonylase; aldehyde decarbonylase; octadecanal decarbonylase; octadecanal

alkane-lyase

Product Information

Form Liquid or lyophilized powder

EC Number EC 4.1.99.5

CAS No. 94185-90-7

Reaction a long-chain aldehyde + O2 + 2 NADPH + 2 H+ = an alkane + formate + H2O + 2

NADP+

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 °C for short term. For long term storage, store it at -20 °C~-80 °C.

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