

Iovastatin nonaketide synthase

Cat. No. EXWM-2101

Lot. No. (See product label)

Introduction

Description

This fungal enzyme system comprises a multi-functional polyketide synthase (PKS) and an enoyl reductase. The PKS catalyses many of the chain building reactions of EC 2.3.1.85, fatty-acid synthase, as well as a reductive methylation and a Diels-Alder reaction, while the reductase is responsible for three enoyl reductions that are necessary for dihydromonacolin L acid production.

Synonyms

LNKS; LovB; LovC; acyl-CoA:malonyl-CoA C-acyltransferase (decarboxylating, oxoacyl- and enoyl-reducing, thioester-hydrolysing)

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 2.3.1.161

CAS No.

235426-97-8

Reaction

$9 \text{ malonyl-CoA} + 11 \text{ NADPH} + 10 \text{ H}^+ + \text{S-adenosyl-L-methionine} + \text{holo-[iovastatin nonaketide synthase]} = \text{dihydromonacolin L-[iovastatin nonaketide synthase]} + 9 \text{ CoA} + 9 \text{ CO}_2 + 11 \text{ NADP}^+ + \text{S-adenosyl-L-homocysteine} + 6 \text{ H}_2\text{O}$

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.