lovastatin 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 malonyl-CoA + 11 NADPH + 10 H+ + S-adenosyl-L-methionine + holo-[lovastatin nonaketide synthase] = dihydromonacolin L-[lovastatin nonaketide synthase] + 9 CoA + 9 CO2 + 11 NADP+ + S-adenosyl-L-homocysteine + 6 H2O
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 ℃.