Creative Enzymes®

2-methylbutanoate polyketide synthase

Cat. No. EXWM-2193

Lot. No. (See product label)

Introduction

Description	This polyketide synthase enzyme forms the (S)-2-methylbutanoate side chain during lovastatin biosynthesis by the filamentous fungus Aspergillus terreus. The overall reaction comprises a single condensation reaction followed by α-methylation, β-ketoreduction, dehydration, and α,β enoyl reduction.
Synonyms	LovF

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 2.3.1.244
Reaction	acetyl-CoA + malonyl-CoA + [2-methylbutanoate polyketide synthase] + 2 NADPH + 2 H+ + S-adenosyl-L-methionine = (S)-2-methylbutanoyl-[2-methylbutanoate polyketide synthase] + 2 CoA + CO2 + 2 NADP+ + S-adenosyl-L-homocysteine + 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 ℃.