Creative Enzymes®

β-ketodecanoyl-[acyl-carrier-protein] synthase

Cat. No. EXWM-2152

Lot. No. (See product label)

Introduction

Description	This enzyme, which has been characterized from the bacterium Pseudomonas aeruginosa PAO1, catalyses the condensation of octanoyl-CoA, obtained from exogenously supplied fatty acids via β-oxidation, with malonyl-[acp], forming 3-oxodecanoyl-[acp], an intermediate of the fatty acid elongation cycle. The enzyme provides a shunt for β-oxidation degradation intermediates into de novo fatty acid biosynthesis.

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 2.3.1.207
Reaction	octanoyl-CoA + a malonyl-[acyl-carrier protein] = a 3-oxodecanoyl-[acyl-carrier protein] + CoA + CO2
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 ℃.