Creative Enzymes®

2-heptyl-4(1H)-quinolone synthase

Cat. No. EXWM-2178

Lot. No. (See product label)

Introduction

Description	The enzyme from the Gram-negative bacterium Pseudomonas aeruginosa is involved in the biosynthesis of 2-heptyl-4-hydroxyquinoline and 2,4-dihydroxyquinoline. 2-Heptyl-4-hydroxyquinoline is a signal molecule, that is involved in regulation of virulence factor production and biofilm formation. The enzyme shows a broad specificity and is involved in the synthesis of a wide array of additional 2-alkyl-4(1H)-quinolones synthesized by the organism.

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 2.3.1.230
Reaction	(1) 3-oxodecanoate + anthraniloyl-CoA = CoA + 2-heptyl-4(1H)-quinolone + CO2 + H2O; (2) malonyl-CoA + anthraniloyl-CoA = 2 CoA + 4-hydroxy-2(1H)-quinolone + 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 ℃.