

## 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 + CO<sub>2</sub> + H<sub>2</sub>O; (2) malonyl-CoA + anthraniloyl-CoA = 2 CoA + 4-hydroxy-2(1H)-quinolone + CO<sub>2</sub>

**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.