

## 1,4-dihydroxy-2-naphthoyl-CoA synthase

Cat. No. EXWM-4913

Lot. No. (See product label)

### Introduction

#### Description

This enzyme is involved in the synthesis of 1,4-dihydroxy-2-naphthoate, a branch point metabolite leading to the biosynthesis of menaquinone (vitamin K2, in bacteria), phyloquinone (vitamin K1 in plants), and many plant pigments. The coenzyme A group is subsequently removed from the product by EC 3.1.2.28, 1,4-dihydroxy-2-naphthoyl-CoA hydrolase.

#### Synonyms

naphthoate synthase; 1,4-dihydroxy-2-naphthoate synthase; dihydroxynaphthoate synthase; o-succinylbenzoyl-CoA 1,4-dihydroxy-2-naphthoate-lyase (cyclizing); MenB; o-succinylbenzoyl-CoA dehydratase (cyclizing)

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 4.1.3.36

#### CAS No.

61328-42-5

#### Reaction

$4\text{-(2-carboxyphenyl)-4-oxobutanoyl-CoA} = 1,4\text{-dihydroxy-2-naphthoyl-CoA} + \text{H}_2\text{O}$

#### 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.