Creative Enzymes®

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), phylloquinone (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-(2-carboxyphenyl)-4-oxobutanoyl-CoA = 1,4-dihydroxy-2-naphthoyl-CoA + 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 ℃.