Creative Enzymes®

o-succinylbenzoate-CoA ligase

Cat. No. EXWM-5684

Lot. No. (See product label)

Introduction

Description	O-succinylbenzoate CoA ligase (EC 6.2.1.26), encoded from the menE gene in Escherichia coli, catalyzes the fifth reaction in the synthesis of menaquinone (vitamin K2). This pathway is called 1, 4-dihydroxy-2-naphthoate biosynthesis I. Vitamin K is a quinone that serves as an electron transporter during anaerobic respiration. This process of anaerobic respiration allows the bacteria to generate the energy required to survive.
Synonyms	o-succinylbenzoyl-coenzyme A synthetase; o-succinylbenzoate:CoA ligase (AMP-forming)

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 6.2.1.26
CAS No.	72506-70-8
Reaction	ATP + 2-succinylbenzoate + CoA = AMP + diphosphate + 4-(2-carboxyphenyl)-4-oxobutanoyl-CoA
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 ℃.