

## 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**  $\text{ATP} + 2\text{-succinylbenzoate} + \text{CoA} = \text{AMP} + \text{diphosphate} + 4\text{-(2-carboxyphenyl)-4-oxobutanoyl-CoA}$

**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 °C for short term. For long term storage, store it at -20 °C~-80 °C.