

2-succinyl-6-hydroxy-2,4-cyclohexadiene-1-carboxylate synthase

Cat. No. EXWM-5266

Lot. No. (See product label)

Introduction

Description

This enzyme is involved in the biosynthesis of vitamin K2 (menaquinone). In most anaerobes and all Gram-positive aerobes, menaquinone is the sole electron transporter in the respiratory chain and is essential for their survival. It had previously been thought that the reactions carried out by this enzyme and EC 2.2.1.9, 2-succinyl-5-enolpyruvyl-6-hydroxy-3-cyclohexene-1-carboxylic-acid synthase, were carried out by a single enzyme but this has since been disproved.

Synonyms

2-succinyl-6-hydroxy-2,4-cyclohexadiene-1-carboxylic acid synthase; 6-hydroxy-2-succinylcyclohexa-2,4-diene-1-carboxylate synthase; SHCHC synthase; MenH; YfbB

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 4.2.99.20

CAS No.

122007-88-9

Reaction

5-enolpyruvoyl-6-hydroxy-2-succinylcyclohex-3-ene-1-carboxylate = (1R,6R)-6-hydroxy-2-succinylcyclohexa-2,4-diene-1-carboxylate + pyruvate

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.