

(5R)-carbapenem-3-carboxylate synthase

Cat. No. EXWM-1019

Lot. No. (See product label)

Introduction

Description

Requires Fe²⁺. The enzyme is involved in the biosynthesis of the carbapenem β -lactam antibiotic (5R)-carbapen-2-em-3-carboxylate in the bacterium *Pectobacterium carotovorum*. It catalyses a stereoinversion at C-5 and introduces a double bond between C-2 and C-3.

Synonyms

carC (gene name)

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.14.20.3

Reaction

(3S,5S)-carbapenam-3-carboxylate + 2-oxoglutarate + O₂ = (5R)-carbapen-2-em-3-carboxylate + succinate + CO₂ + 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 °C for short term. For long term storage, store it at -20 °C~-80 °C.