Creative Enzymes®

(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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.