

(carboxyethyl)arginine β -lactam-synthase

Cat. No. EXWM-5776

Lot. No. (See product label)

Introduction

Description

Forms part of the pathway for the biosynthesis of the β -lactamase inhibitor clavulanate in *Streptomyces clavuligerus*. It has been proposed that L-N2-(2-carboxyethyl)arginine is first converted into an acyl-AMP by reaction with ATP and loss of diphosphate, and that the β -lactam ring is then formed by the intramolecular attack of the β -nitrogen on the activated carboxy group.

Synonyms

L-2-N-(2-carboxyethyl)arginine cyclo-ligase (AMP-forming)

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 6.3.3.4

Reaction

ATP + L-N2-(2-carboxyethyl)arginine = AMP + diphosphate + deoxyamidinoproclavamate

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.