Creative Enzymes®

(carboxyethyl)arginine β-lactam-synthase

Cat. No. EXWM-5776

Lot. No. (See product label)

Introduction

Description	Forms part of the pathway for the biosythesis 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 + deoxyamidinoproclavaminate
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 ℃.