Creative Enzymes®

N-(5-amino-5-carboxypentanoyl)-L-cysteinyl-D-valine synthase

Cat. No. EXWM-5744

Lot. No. (See product label)

Introduction

Description	Requires Mg2+. The enzyme contains 4'-phosphopantetheine, which may be involved in the mechanism of the reaction. Forms part of the penicillin biosynthesis pathway (for pathway, click here).
Synonyms	L-Δ-(α-aminoadipoyl)-L-cysteinyl-D-valine synthetase; ACV synthetase; L-α-aminoadipyl-cysteinyl-valine synthetase;

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 6.3.2.26
CAS No.	57219-73-5
Reaction	3 ATP + L-2-aminohexanedioate + L-cysteine + L-valine + H2O = 3 AMP + 3 diphosphate + N-[L-5-amino-5-carboxypentanoyl]-L-cysteinyl-D-valine
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 ℃.