

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 °C for short term. For long term storage, store it at -20 °C~-80 °C.