

N-carbamoyl-D-amino-acid hydrolase

Cat. No. EXWM-4468

Lot. No. (See product label)

Introduction

Description

This enzyme, along with EC 3.5.1.87 (N-carbamoyl-L-amino-acid hydrolase), EC 5.1.99.5 (hydantoin racemase) and hydantoinase, forms part of the reaction cascade known as the "hydantoinase process", which allows the total conversion of D,L-5-monosubstituted hydantoins into optically pure D- or L-amino acids. It has strict stereospecificity for N-carbamoyl-D-amino acids and does not act upon the corresponding L-amino acids or on the N-formyl amino acids, N-carbamoyl-sarcosine, -citrulline, -allantoin and -ureidopropanoate, which are substrates for other amidohydrolases.

Synonyms

D-N-carbamoylase; N-carbamoylase (ambiguous); N-carbamoyl-D-amino acid hydrolase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 3.5.1.77

CAS No.

71768-08-6

Reaction

an N-carbamoyl-D-amino acid + H₂O = a D-amino acid + NH₃ + CO₂

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.