Creative Enzymes®

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