Creative Enzymes®

Acylase I from Aspergillus sp., Immobilized on Eupergit C

Cat. No. NATE-0030

Lot. No. (See product label)

Introduction

Description	In enzymology, an aminoacylase (EC 3.5.1.14) is an enzyme that catalyzes the chemical reaction:N-acyl-L-amino acid + H2O↔ carboxylate + L-amino acid. Thus, the two substRates of this enzyme are N-acyl-L-amino acid and H2O, whereas its two products are carboxylate and L-amino acid. This enzyme belongs to the family of hydrolases, those acting on carbon-nitrogen bonds other than peptide bonds, specifically in linear amides. This enzyme participates in urea cycle and metabolism of amino groups.
Synonyms	aminoacylase 1; aminoacylase I; dehydropeptidase II; histozyme; hippuricase; benzamidase; acylase I; hippurase; amido acid deacylase; L-aminoacylase; acylase; aminoacylase; L-amino-acid acylase; α-N-acylaminoacid hydrolase; long acyl amidoacylase; short acyl amidoacylase; ACY1 (gene name); N-acyl-L-amino-acid amidohydrolase; EC 3.5.1.14; 9012-37-7

Product Information

Source	Aspergillus sp
EC Number	EC 3.5.1.14
CAS No.	9012-37-7
Activity	> 50 U/g moist material
Unit Definition	1 U corresponds to the amount of enzyme which hydrolyzes 1 μmol N-acetyl-L-methionine per minute at pH 8.0 and 25°C

Storage and Shipping Information

Storage	2-8°C