

Native *Aspergillus melleus* Acylase I

Cat. No. NATE-0029

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 melleus*

Form powder.

EC Number EC 3.5.1.14

CAS No. 9012-37-7

Activity >0.5 units/mg

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 37°C

Storage and Shipping Information

Storage 2-8°C