

## 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 + H<sub>2</sub>O ⇌ carboxylate + L-amino acid. Thus, the two substrates of this enzyme are N-acyl-L-amino acid and H<sub>2</sub>O, 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