

## N-acyl-aliphatic-L-amino acid amidohydrolase

Cat. No. EXWM-4403

Lot. No. (See product label)

### Introduction

#### Description

Contains  $Zn^{2+}$ . The enzyme is found in animals and is involved in the hydrolysis of N-acylated or N-acetylated amino acids (except L-aspartate). It acts on mercapturic acids (S-conjugates of N-acetyl-L-cysteine) and neutral aliphatic N-acyl- $\alpha$ -amino acids. Some bacterial aminoacylases demonstrate substrate specificity of both EC 3.5.1.14 and EC 3.5.1.114. cf. EC 3.5.1.15, aspartoacylase and EC 3.5.1.114, N-acyl-aromatic-L-amino acid amidohydrolase.

#### Synonyms

aminoacylase 1; aminoacylase I; dehydropeptidase II; histozyme; hippuricase; benzamidase; acylase I; hippurase; amido acid deacylase; L-aminoacylase; acylase; aminoacylase; L-amino-acid acylase;  $\alpha$ -N-acylaminoacid hydrolase; long acyl amidoacylase; short acyl amidoacylase; ACY1 (gene name); N-acyl-L-amino-acid amidohydrolase

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 3.5.1.14

#### CAS No.

9012-37-7

#### Reaction

(1) an N-acyl-aliphatic-L-amino acid +  $H_2O$  = an aliphatic L-amino acid + a carboxylate; (2) an N-acetyl-L-cysteine-S-conjugate +  $H_2O$  = an L-cysteine-S-conjugate + acetate

#### 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.