

N-acyl-aromatic-L-amino acid amidohydrolase

Cat. No. EXWM-4394

Lot. No. (See product label)

Introduction

Description

This enzyme is found in animals and is involved in the hydrolysis of N-acylated or N-acetylated amino acids (except L-aspartate). It preferentially deacetylates N α -acetylated aromatic amino acids and mercapturic acids (S-conjugates of N-acetyl-L-cysteine) that are usually not deacetylated by EC 3.5.1.14, N-acyl-aliphatic-L-amino acid amidohydrolase. The enzyme is significantly activated by Co²⁺ and Ni²⁺. Some bacterial aminoacylases demonstrate substrate specificity for both EC 3.5.1.14 and EC 3.5.1.114. cf. EC 3.5.1.14, N-acyl-aliphatic-L-amino acid amidohydrolase and EC 3.5.1.15, aspartoacylase.

Synonyms

aminoacylase 3; aminoacylase III; ACY3 (gene name)

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 3.5.1.114

Reaction

(1) an N-acyl-aromatic-L-amino acid + H₂O = an aromatic-L-amino acid + a carboxylate; (2) an N-acetyl-L-cysteine-S-conjugate + H₂O = 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.