Creative Enzymes®

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 Nα-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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.