Creative Enzymes®

# aspartoacylase

*Cat. No. EXWM-4404*

*Lot. No.* (See product label)

## Introduction

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| ***Description*** | Aspartoacylase (EC 3.5.1.15, aminoacylase II, N-acetylaspartate amidohydrolase, acetyl-aspartic deaminase, acylase II, ASPA) is a hydrolase enzyme responsible for catalyzing the deacylation of N-acetyl-l-aspartate (N-acetylaspartate,NAA) into aspartate and acetate. It is a zinc-dependent hydrolase that promotes the deprotonation of water to use as a nucleophile in a mechanism analogous to many other zinc-dependent hydrolases. It is most commonly found in the brain, where it controls the levels of N-actetyl-l-aspartate. |
| ***Synonyms*** | aminoacylase II; N-acetylaspartate amidohydrolase; acetyl-aspartic deaminase; acylase II |

## Product Information

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| ***Form*** | Liquid or lyophilized powder |
| ***EC Number*** | EC 3.5.1.15 |
| ***CAS No.*** | 9031-86-1 |
| ***Reaction*** | N-acyl-L-aspartate + H2O = a carboxylate + L-aspartate |
| ***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

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| ***Storage*** | Store it at +4 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃. |