

Native *Aeromonas proteolytica* Aminopeptidase

Cat. No. NATE-0071

Lot. No. (See product label)

Introduction

Description Aminopeptidase from *Aeromonas proteolytica* is a metalloenzyme, which contains 2 atoms of Zn^{2+} in a single polypeptide with an approximate molecular weight of 29.5 kDa as determined by sedimentation. This enzyme has a high degree of stability, being stable even at temperatures of 70°C for several hours. Partial inactivation occurs in 8 M urea. Maximum stability and activity are between pH 8.0-8.5. Aminopeptidase from *Aeromonas proteolytica* can function as an esterase.

Applications Aminopeptidases are a family of widely distributed proteases, which may be used to study many significant biological processes such as protein maturation, hormone production, and peptide digestion. The enzyme has been used to measure the kinetic rate constant for the binding of bestatin, a general protease inhibitor, to aminopeptidase.

Synonyms Aminopeptidase; 37288-67-8; EC 3.4.11.10; *Aeromonas proteolytica* aminopeptidase

Product Information

Source *Aeromonas proteolytica*

Form lyophilized powder, 50-150 units/mg protein

EC Number EC 3.4.11.10

CAS No. 37288-67-8

Optimum pH 8.0-8.5

Composition Protein, ~40% biuret

Specificity Catalyzes the release of an N-terminal amino acid, preferentially leucine, but not glutamic or aspartic acids.

Buffer Dissolves in water at 0.9-1.1 mg/mL concentration to form a clear, colorless solution.

Storage and Shipping Information

Storage -20°C