

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 Zn²⁺ 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