Creative Enzymes®

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