Aminopeptidase from Aeromonas proteolytica

Product Number A8200
Storage Temperature -0 °C

Product Description
CAS Number: 37288-67-8
pI: 3.0-3.5
$\lambda_{\text{max}} = 278$ nm
Extinction Coefficient: $E^{1\%}_{\text{1cm}} = 14.4$ (278.5 nm)

Aminopeptidases are a family of widely distributed proteases, which participate in many significant biological processes, such as protein maturation, hormone production, and peptide digestion. While several Zn$^{2+}$ peptidases are known to contain a single Zn$^{2+}$ ion in their active site, a few metalloaminopeptidases, including those from bovine lens, Escherichia coli, Aeromonas proteolytica, and Streptomyces griseus have been proven by means of X-ray crystallography to contain a dinuclear metal active site.

This product 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.

Precautions and Disclaimer
For Laboratory Use Only. Not for drug, household or other uses.

Preparation Instructions
This product is soluble in water and aqueous buffers.

Storage/Stability
This enzyme has a high degree of stability, being stable even to temperatures of 70 °C for several hours. Partial inactivation occurs in 8 M urea. Maximum stability and activity are at pH 8.0-8.5. The enzyme is stable for several years at -20 °C and it may be lyophilized and reconstituted with little loss in activity.

References