



Product Information

Aminopeptidase from *Aeromonas proteolytica*

Product Number **A8200**
Storage Temperature -0 °C

Product Description

CAS Number: 37288-67-8
pI: 3.0-3.5¹
 λ_{\max} = 278 nm¹
Extinction Coefficient: $E^{1\%} = 14.4$ (278.5 nm)¹

Aminopeptidases are a family of widely distributed proteases, which participate in many significant biological processes, such as protein maturation, hormone production, and peptide digestion.²⁻⁴ While several Zn²⁺ peptidases are known to contain a single Zn²⁺ ion in their active site⁵⁻⁷, a few metalloaminopeptidases, including those from bovine lens,⁸⁻¹¹ *Escherichia coli*,^{1,2} *Aeromonas proteolytica*,¹³ and *Streptomyces griseus*¹⁴ 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 Zn²⁺ 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.¹ 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

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CMH/NSB 11/06

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