

## Product Information

### Aminopeptidase from *Aeromonas proteolytica*

Product Number **A8200**

Storage Temperature -0 °C

#### Product Description

CAS Number: 37288-67-8

pI: 3.0-3.5<sup>1</sup>

$\lambda_{\max}$  = 278 nm<sup>1</sup>

Extinction Coefficient:  $E^{1\%} = 14.4$  (278.5 nm)<sup>1</sup>

Aminopeptidases are a family of widely distributed proteases, which participate in many significant biological processes, such as protein maturation, hormone production, and peptide digestion.<sup>2-4</sup> While several Zn<sup>2+</sup> peptidases are known to contain a single Zn<sup>2+</sup> ion in their active site<sup>5-7</sup>, a few metalloaminopeptidases, including those from bovine lens,<sup>8-11</sup> *Escherichia coli*,<sup>1,2</sup> *Aeromonas proteolytica*,<sup>13</sup> and *Streptomyces griseus*<sup>14</sup> 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<sup>2+</sup> 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.<sup>1</sup> 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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