



# Recombinant Aeromonas Aminopeptidase

20150709BB



**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

<b>Cat.-no.:</b>	<b>100-401</b>
Size:	500 µg
Lot. No.:	According to product label

## Scientific Background

<b>Gene-ID (NCBI):</b>	
<b>Synonyms:</b>	Proteolytic Enzymes, Peptidases, Proteinases

Proteases (also called Proteolytic Enzymes, Peptidases, or Proteinases) are enzymes that hydrolyze the amide bonds within proteins or peptides. Most proteases act in a specific manner, hydrolyzing bonds at or adjacent to specific residues or a specific sequence of residues contained within the substrate protein or peptide. Proteases play an important role in most diseases and biological processes including prenatal and postnatal development, reproduction, signal transduction, the immune response, various autoimmune and degenerative diseases, and cancer. They are also an important research tool, frequently used in the analysis and production of proteins. Recombinant Aeromonas Aminopeptidase is a 31.4 kDa protein containing 291 amino acid residues.

### Sequence

```
MPPITQQATVTAWLPQVDASQITGTISSLESFTNRFYTTTSGAQASDWIASE
WQALSASLPNKQVSHSGYNQKSVVMTITGSEAPDEWIVIGGHLDTIGSHTN
EQSVAPGADDDASGIAAVTEVIRVLSENNFQPKRSIAFMAYAAEEVGLRGSQ
DLANQYKSEGKNNVSALQLDMTNYKGSAQDVVFI TDYTDNSFTQYLTQLMDE
YLPSTLYGFDTTCGYACSDHASWHNAGYPAAMPFESKFNDYNPRIHTTQDTLA
NSDPTGSHAKKFTQLGLAYAIEMGSATG
```

### Database References

<b>Protein RefSeq:</b>	
<b>Uniprot ID:</b>	Q01693
<b>mRNA RefSeq:</b>	

## Product Specifications

<b>Expressed in</b>	E. coli
<b>Purity</b>	> 95% by SDS-PAGE & HPLC analyses
<b>Endotoxin level</b>	< 0.1 ng /µg of protein (<1EU/µg).
<b>Formulation</b>	Lyophilized from 20 mM Tris, pH 7.6 + 60 mM NaCl + 0.3 mM ZnCl <sub>2</sub>
<b>Length (aa):</b>	291
<b>MW:</b>	31.4kDa

**Stability:** The lyophilized protein is stable at room temperature for 1 month and at 4°C for 6 months. Reconstituted working aliquots are stable for 1 week at 2°C to 8°C and for 9 months at -20°C to -80°C.

**Reconstitution:** Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. *Do not vortex.* This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer (e.g. PBS) containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.



**AVOID REPEATED FREEZE AND THAW CYCLES!**

**Biological Activity:** Sequentially cleaves N-terminal amino acids except E, D, and X-P.