

Recombinant *Aeromonas* Aminopeptidase (r*Aeromonas* Aminopeptidase)

ChemWhat Technical Data Sheet (TDS)

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| Catalog Number: | 4A1-08 |
| Source: | <i>Escherichia coli</i> . |
| Molecular Weight: | Approximately 31.4 kDa, a single non-glycosylated polypeptide chain containing 291 amino acids. |
| Quantity: | 100µg/500µg/1000µg |
| AA Sequence: | MPPITQQATV TAWLPQVDAS QITGTISSLE SFTNRFYTTT SGAQASDWIA SEWQALSASL PNASVKQVSH SGYNQKSVVM TITGSEAPDE WIVIGGHLDS TIGSHTNEQS VAPGADDDAS GIAAVTEVIR VLSENNFQPK RSI AFMAYAA EEVGLRGSQD LANQYKSEGK NVVSALQLDM TNYKGS AQDV VFITDYTDSN FTQYLTQLMD EYLPSLTYGF DTCGYACSDH ASWHNAGYPA AMPFESKFND YNPRIHTTQD TLANS DPTGS HAKKFTQLGL AYA IEMGSAT G |
| Purity: | > 98 % by SDS-PAGE and HPLC analyses. |
| Biological Activity: | Sequentially cleaves N-terminal amino acids except E, D, and X-P. |
| Physical Appearance: | Sterile Filtered White lyophilized (freeze-dried) powder. |
| Formulation: | Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM Tris, 150 mM NaCl, 5µM ZnSO ₄ , pH 8.0. |
| Endotoxin: | Less than 0.1 EU/µg of r <i>Aeromonas</i> Aminopeptidase as determined by LAL method. |
| Reconstitution: | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer to a concentration of 0.1-1.0 mg/ml. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions. |
| Shipping: | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. |
| Stability & Storage: | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none">● 12 months from date of receipt, -20 to -70 °C as supplied.● 1 month, 2 to 8 °C under sterile conditions after reconstitution.● 3 months, -20 to -70 °C under sterile conditions after reconstitution. |
| Usage: | ChemWhat Limited in UK offers this branded product for research, development or further evaluation purposes. NOT FOR HUMAN USE. |

Aeromonas Aminopeptidase

Aminopeptidases catalyze the cleavage of amino acids from the amino terminus of protein or peptide substrates. They are widely distributed throughout the animal and plant kingdoms and are found in many subcellular organelles, in cytoplasm and as membrane components. Some aminopeptidases are monomeric and others are assemblies of relatively high mass (50 kDa) subunits. Aminopeptidases 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.