

## Recombinant Kluyvera phage Kvp1 Endolysin Protein (Ser2-Gly151), C-His tagged

**Cat. No.** amidase-5541K    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                         |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Kluyvera phage Kvp1 Endolysin (Ser2-Gly151) fused with the C-His tag was expressed in E. coli.                                                                              |
| <b>Species</b>          | Kluyvera phage Kvp1                                                                                                                                                                     |
| <b>Source</b>           | E.coli                                                                                                                                                                                  |
| <b>ProteinLength</b>    | Ser2-Gly151                                                                                                                                                                             |
| <b>Form</b>             | Lyophilized powder/frozen liquid                                                                                                                                                        |
| <b>Molecular Mass</b>   | 18.08 kDa                                                                                                                                                                               |
| <b>Purity</b>           | > 90 % as determined by SDS-PAGE                                                                                                                                                        |
| <b>Notes</b>            | For research use only.                                                                                                                                                                  |
| <b>Storage</b>          | Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt. |
| <b>Storage Buffer</b>   | Supplied as solution form in PBS, pH 7.5 or lyophilized from PBS, pH 7.5.                                                                                                               |
| <b>Reconstitution</b>   | Reconstitute in sterile water for a stock solution.                                                                                                                                     |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

**Shipping** They are shipped out with dry ice/blue ice unless customers require otherwise.

## GENE INFORMATION

**Gene Name** 3.5 amidase [ Kluysvera phage Kvp1 ]

**Official Symbol** amidase

**Synonyms** 3.5; amidase; T7 lysozyme hydrolyzes an amide bond in the host cell wall following its release from the cytoplasm. In addition, T7 lysozyme inhibits T7 RNA polymerase initiation. This inhibition is greater for class II promoters than class III promoters and therefore may aid in temporal regulation of transcription and the switch to particle assembly. In T7, lysozyme, unlike the T7 holin, is expressed with and lies in the same region as the replication genes. Lack of gp3.5 reduces replication and burst size and delays, but does not completely prevent lysis. Mutations in the muralytic domain of gene 16, an inner capsid protein, can partially compensate for a deletion of gp3.5. Other names: gp3.5; amidase; N-acetylmuramoyl-L-alanine amidase

**Gene ID** 7040055

**Protein Refseq** YP\_002308397

**UniProt ID** B6Z9F7

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