

## Active Recombinant Staphylococcus Glu-C

**Cat. No.** CED42    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| <b>Product Overview</b> | Recombinant Staphylococcus Glu-C is a 28.8 kDa protease consisting of 266 amino acid residues.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Species</b>          | Staphylococcus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>      | 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. Glu-C cleaves at the Carboxyl side of E (can also cleave D under certain conditions). |
| <b>Bio-activity</b>     | Cleaves at the Carboxyl side of E (can also cleave D under certain conditions).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>AA Sequence</b>      | LPNNDRHQIT DTTNGHYAPV TYIQVEAPTG TFIASGVVVG KDTLLTNKHV<br>VDATHGDPHA LKAFPSAINQ DNYPNGGFTA EQITKYSGEG DLAIKVFSPN<br>EQNKHIGEVV KPATMSNNAE TQVNQNITVT GYPGDKPVAT MWESKKGKITY<br>LKGEAMQYDL STTGGNSGSP VFNEKNEVIG IHWGGVPNEF NGAVFINENV<br>RNFLKQNIED IHFANDDQPN NPDNPDNPNP PDNPNNPDEP NNPDPNPNPD                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

 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

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|--------------------|-----------------------------------------------------|------------------------------------------------------------------------------------------------|
| NPDNGDNNNS DNPDA A |                                                     |                                                                                                |
| <b>Purity</b>      | Greater than 95% by SDS-PAGE gel and HPLC analyses. |                                                                                                |
| <b>Storage</b>     | Store at -20°C. Avoid repeated freeze-thaw cycles.  |                                                                                                |
| <b>Background</b>  | Introduction                                        | V8 Protease, a Staphylococcal serine proteinase, specifically cuts the C-end of glutamic acid. |
|                    | Keywords                                            | Staphylococcus Glu-C; V8 Protease; Recombinant Staphylococcus Glu-C                            |