Creative Enzymes®

Immobilized Endoproteinase Glu-C on F7m

Cat. No. NATE-1763

Lot. No. (See product label)

Introduction

Description

Endoproteinase Glu-C hydrolyzes peptide and ester linkages specifically at the carboxyl end of glutamic acid (-Glu/-X; in ammonium carbonate pH 7. 8, or ammonium acetate pH 4. 0, buffer A) or of glutamic and aspartic acid (-Glu/-X and -Asp/-X; in phosphate buffer pH 7. 8, buffer B). F7m: 1. 0 mg endoproteinase Glu-C immobilized on matrix F7m per CR-column. 900 units immobilized per CR-column. Nr. 7 Storage buffer: 50 mM Tris/HCl at pH 7. 5, 5 mM EDTA. Nr. 31 Reaction buffer A: 25 mM ammonium acetate, pH 4. 0 (see above) Nr. 32 Washing buffer A: 25 mM ammonium acetate, pH 4. 0, 1 M NaCl Nr. 62 Reaction buffer B: 50 mM phosphate buffer, pH 7. 8 (see above) Nr. 63 Washing buffer B: 50 mM phosphate buffer, pH 7. 8, 1 M NaCl

Synonyms

EC 3. 4. 21. 19; Staph aureus V8 Protease; Protease, Staph aureus (Endoproteinase Glu-C); Glutamyl endopeptidase; V8 proteinase, endoproteinase Glu-C; staphylococcal serine proteinase

Product Information

Source

Staphylococcus aureus

EC Number

EC 3. 4. 21. 19

Protocol

1. Dilute delivered buffers (at least 2 ml each) with sterile doubly distilled water. For 1 application you need 0.25 ml 10x reaction buffer and 2. 25 ml doubly distilled water 0.4 ml 5x washing buffer and 1. 6 ml doubly distilled water 0.2 ml 10x storage buffer and 1. 8 ml doubly distilled water The substrate should be in reaction buffer 2. Equilibrate the CR-column with 2 ml reaction buffer. Fill 2 ml reaction buffer into a syringe, let the reaction buffer run through the column by gravity to the upper filter. In case the buffer runs very slowly, apply pressure by a syringe. 3. Load substrate solution in reaction buffer. Small volumes (< 80 µl): spin the CR-column 5 seconds in a benchtop centrifuge (2000 rpm are sufficient). Let the substrate solution enter the matrix material. Larger volumes: Let the substrate solution run through the column. Flow-rate: up to 80 µl/minute Keep the substrate in the column for about 1 minute at room temperature. Higher turn-over is obtained when the substrate is applied to the column again or incubated for longer times. 4. Elute the product solution. Small volumes (< 80 µl): Elute the product with 500 µl reaction buffer. Larger volumes: Let the substrate run through the column and elute the residual product solution with 500 µl reaction buffer. It does not harm the columns if they run dry. 5. Wash the column with 2 ml washing buffer. 6. Equilibrate the column with 2 ml storage buffer. Store the column at 4°C. Never freeze a CR-column!

Storage and Shipping Information

Storage

4 °C