Creative Enzymes®

Endoproteinase GluC from Staphylococcus aureus, Recombinant

Cat. No. NATE-1270

Lot. No. (See product label)

Introduction

Description	Protease S. aureus V8 (Endoproteinase-Glu-C) specifically cleaves peptide bonds on the COOH-terminal side of either aspartic or glutamic acids. In the presence of ammonium, the enzyme specificity is limited to glutamic sites. It has a molecular weight of 27 kDa daltons and optimum pH's of 4.0 and 7.8 with hemoglobin as the substrate. Protease S. aureus V8 is inhibited by diisopropylfluorophosphate and monovalent anions such as F-, Cl-, CH3COO-and NO3. Enzyme activity is determined by the casein digestion assay described by Drapeau.
Applications	• Digestion of proteins for proteomic analysis by Mass Spectrometry • Protein and peptide identification
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

Species	Staphylococcus aureus
Source	Bacillus subtilis
Form	Supplied freeze-dried from a Tris-HCl and sodium chloride buffer.
CAS No.	66676-43-5
Molecular Weight	29849 daltons
Activity	38.3 μmol/min/mg

Storage and Shipping Information

Storage	at -20°C