Datasheet for ABIN5706431

Protease S. aureus

Go to Product page

Overview

Quantity:	1 mg

Product Details

Purification:	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 27,000 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.
Biological Activity Comment:	880 units/mg

Target Details

Gene ID:	1280
UniProt:	P0C1U8

Application Details

Application Notes:	Application Note: Protease S. aureus has shown that one unit causes a change of 0.001 A280 nm per minute at 37° C at pH 7.8 using casein as a substrate. Specific conditions for reactivity should be optimized by end user.
Comment:	Synonyms: Glutamyl endopeptidase,Endoproteinase Glu-C, Staphylococcal serine proteinase, V8 protease, V8 proteinase Background: 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,

Application Details

	the enzyme specificity is limited to glutamic sites. It has a molecular weight of 27,000 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. Protease S. aureus is ideal for investigators involved in enzyme and infectious diease research. Gene Name: sspA
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Reconstitution Volume: 1.0 mL Reconstitution Buffer: Restore with deionized water (or equivalent)
Concentration:	1 mg/mL
Buffer:	Buffer: None Stabilizer: None
Preservative:	Without preservative
Storage:	4 °C,-20 °C
Expiry Date:	12 months