Product Data Sheet

Product Name:	GLU-C S.aureus
Cat. No.:	GP21691
Batch No.:	1

Product Data

Purity	>98%	Source	Escherichia Coli.
Phycical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Glutamyl endopeptidase (EC:3.4.21.19); Endoproteinase Glu-C; Staphylococcal serine proteinase; V8 protease; V8 proteinase; sspA.		
Amino Acid Sequence	MLPNNDRHQI TDTTNGHYAP VTYIQVEAPT GTFIASGVVV GKDTLLTNKH VVDATHGDPH ALKAFPSAIN QDNYPNGGFT AEQITKYSGE GDLAIVKFSP NEQNKHIGEV VKPATMSNNA ETQVNQNITV TGYPGDKPVA TMWESKGKIT YLKGEAMQYD LSTTGGNSGS PVFNEKNEVI GIHWGGVPNE FNGAVFINEN VRNFLKQNIE DIHFANDDQP NNPDNPDNPN NPDNPNNPDE PNNPDNPNNP DNPDNGDNNN SDNPDAA.		
Solubility	It is recommended to reconstitute the lyophilized GLU-C in sterile 18M-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a sterile (0.2µm) filtered aqueous solution containing 10mM sodium phosphate, pH 7.5.		

Introduction

Glutamyl endopeptidase (GLU-C) is an enzyme which cleaves peptide bonds on the carboxyl-terminal side of glutamic acid and, less frequently, aspartic acid (for example: Glu-|-Xaa, Asp-|-Xaa). GLU-C is a pathogenic factor involved in the adherence and colonization of human tissue. GLU-C preferentially cleaves peptide bonds on the carboxyl-terminal side of aspartate and glutamate. GLU-C is required for proteolytic maturation of thiol protease SspB and inactivation of SspC, an inhibitor of SspB. GLU-C is the most important protease for degradation of fibronectin-binding protein (FnBP) and surface protein A, which are involved in adherence to host cells. Furthermore, GLU-C protects bacteria against host defense mechanism by cleaving the immunoglobulin classes IgG, IgA and IgM. GLU-C may also be involved in the stability of secreted lipases.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA

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Stability

Lyophilized GLU-C although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution GLU-C should be stored at 4°C between 2-7 days and for future use below -18°C .For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.

Background

Recombinant Staphylococcal GLU-C produced in E.coli is a single, non-glycosylated polypeptide chain containing a total of 267 amino acids and having a molecular mass of 28.9kDa.

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