

BACKGROUND:

Glutamyl endopeptidase (Glu-C) is an enzyme from *Staphylococcus aureus* strain V8 that hydrolyzes peptide bonds formed on the carboxyl terminal side of aspartate and glutamate amino acid residues. Glu-C is pathogenic to human tissue and functions during adherence and colonization of host cells. Glu-C protects against host defense mechanisms by fragmenting human immunoglobulins IgG, IgM, and IgA.

Recombinant *Staphylococcus Aureus* Glutamyl Endopeptidase is a non-glycosylated protein monomer, containing 267 amino acids and having a molecular mass of 28.9 kDa.

Cat. No.:
 RP4004

Alternate Names:
 Endoproteinase Glu-C, Staphylococcal serine proteinase, V8 protease

AA Sequence:

MLPNDRHQI	TDTTNGHYAP	VTYIQVEAPT
GTFIASGVVV	GKDTLLTNKH	VVDATHGDPH
ALKAFPSAIN	QDNYPNGGFT	AEQITKYSGE
GDLAIVKFSP	NEQNKHIGEV	VKPATMSNNA
ETQVNQNITV	TGYPGDKPVA	TMWESKGGKIT
YLKGEAMQYD	LSTTGGNSGS	PVFNEKNEVI
GIHWGGVPNE	FNGAVFINEN	VRNFLKQNIIE
DIHFANDDQP	NNPDNPDNPN	NPDNPNNDPE
PNNPDNPNNP	DNPDNGDNNN	SDNPDA

TECHNICAL INFO

Source:
E. coli

Physical Appearance:
 Sterile Filtered white lyophilized (freeze-dried) powder.

Formulation:
 10 mM sodium phosphate, pH 7.5

Stability:
 Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

Reconstitution:
 Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at 0.1 mg/mL, which can be further diluted into other aqueous solutions.

Protein Content and Purity determined by:

- UV spectroscopy at 280 nm.
- RP-HPLC calibrated against a known standard.
- Quantitation against a known standard via reducing and non-reducing SDS-PAGE gels.

Endotoxin Level:
 Endotoxin level, as measured by LAL analysis, is <0.01ng/ug or <0.1EU/ug.

