

Staphylococcus Glu-C E. coli

Product Data Sheet

Type: Recombinant	Cat. No.:	
Source: E. coli	RBG40001050	(50 µg)
Species:	RBG40001100	(500 µg)
Other names: V8 Protease	RBG40001250	(250 µg)

Description

Proteases (also called Proteolytic Enzymes, Peptidases, or Proteinases) are enzymes that hydrolyze the amide bonds within proteins or peptides. Most proteases act in a specific manner, hydrolyzing bonds at, or adjacent to, specific residues, or a specific sequence of residues contained within the substrate protein or peptide. Proteases play an important role in most diseases and biological processes, including prenatal and postnatal development, reproduction, signal transduction, immune response, various autoimmune and degenerative diseases, and cancer. They are also an important research tool, as they are frequently used in the analysis and production of proteins. Glu-C cleaves at the Carboxyl side of E (can also cleave D under certain conditions). Recombinant Staphylococcus Glu-C is a 28.8 kDa protease consisting of 266 amino acid residues.

Research topic

Immune Response, Infection and Inflammation, Oncology

Amino Acid Sequence

LPNNDRHQIT DTTNGHYAPV TYIQVEAPTG TFIASGVVVG KDTLLTNKHV VDATHGDPHA LKAFPSAINQ DNYPNGGFTA
EQITKYSGEG DLAIVKFSPN EQNKHIGEVV KPATMSNNAE TQVNQNITVT GYPGDKPVAT MWESK GKITY LKGEAMQYDL
STTGGNSGSP VFNEKNEVIG IHWGGVPNEF NGAVFINENV RNFLKQNIED IHFANDDQPN NPDNPDNPNN PDNPNNDPEP
NNPDNPNNDP NPDNGDNNNS DNPDA A

Source

E. coli

Purity

95%

Biological Activity

Cleaves at the Carboxyl side of E (can also cleave D under certain conditions).

Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C

Storage, Stability/Shelf Life

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