

Product Data Sheet

Product Name: Endoproteinase Glu-C

Cat. No.: GC71821

Chemical Properties

Cas. No. 137010-42-5

Formula M.Wt

Solubility Storage

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Endoproteinase Glu-C

Background

Endoproteinase GluC (V8 protease) is a serine proteinase. Endoproteinase GluC is able to hydrolyze some serpins and all classes of mammalian immunoglobulins.

This product can be used for: protein enzyme digestion sequencing analysis, peptide map analysis

Caution: Product has not been fully validated for medical applications. For research use only.

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and peptide mass fingerprint analysis.

Reaction conditions

Reaction pH: active between 4.0-10.0

Optimum pH: 8.0-8.5

Inhibitors: Diisopropylfluorophosphate (DFP), α 2-macroglobulin, and N α -P-tosyl-L-lysine chloromethyl ketone (TLCK)

Molecular weight: 24.0 $\pm$ 2.4 kDa (SDS-PAGE)

Protocol

1) Dissolution: 25-50 mM NH₄HCO₃ (pH 7.8) to dissolve the target protein. If the solubility is not good, the target protein can be denatured (adding urea, SDS, DTT or heating).

2) Enzyme digestion: The recommended ratio of V8 protease and target protein is 1/20-1/100 (W/W), enzyme digestion at 25°C or 37°C for 2-18 h.

References:

[1]. Burchacka E, et, al. Phosphonic analogues of glutamic acid as irreversible inhibitors of Staphylococcus aureus endoprotease GluC: an efficient synthesis and inhibition of the human IgG degradation. Bioorg Med Chem Lett. 2013 Mar 1;23(5):1412-5.

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