Endoproteinase Glu-C

Cat. No.: HY-E70194

CAS No.: 137010-42-5

Target: Ser/Thr Protease

Pathway: Metabolic Enzyme/Protease

Storage:

Pure form	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month

Endoproteinase Glu-C

BIOLOGICAL ACTIVITY

Description	Endoproteinase GluC (V8 protease) is a serine proteinase. Endoproteinase GluC is able to hydrolyze some serpins and all classes of mammalian immunoglobulins[1].
In Vitro	This product can be used for: protein enzyme digestion sequencing analysis, peptide map analysis and peptide mass fingerprint analysis. Reaction conditions Reaction pH: active between 4.0-10.0 Optimum pH: 8.0-8.5 Inhibitors: Diisopropylfluorophosphate (DFP), α2-macroglobulin, and Nα-P-tosyl-L-lysine chloromethyl ketone (TLCK) Molecular weight: 24.0±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 ℃ or 37℃ for 2-18 h. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Burchacka E, et, al. Phosphonic analogues of glutamic acid as irreversible inhibitors of Staphylococcus aureus endoproteinase 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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