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Zuschläge

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Endoproteinase Glu-C

Cat. No.:	HY-E70194
CAS No.:	137010-42-5
Target:	Ser/Thr Protease
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

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	<p>This product can be used for: protein enzyme digestion sequencing analysis, peptide map analysis and peptide mass fingerprint analysis.</p> <p>Reaction conditions</p> <p>Reaction pH: active between 4.0-10.0</p> <p>Optimum pH: 8.0-8.5</p> <p>Inhibitors: Diisopropylfluorophosphate (DFP), α2-macroglobulin, and Nα-P-tosyl-L-lysine chloromethyl ketone (TLCK)</p> <p>Molecular weight: 24.0\pm2.4 kDa (SDS-PAGE)</p> <p>Protocol</p> <p>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).</p> <p>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.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

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.

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

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