Endoproteinase Lys-C

Cat. No.: HY-P3208

CAS No.: 72561-05-8

Target: Biochemical Assay Reagents

Pathway: Others

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.

SOLVENT & SOLUBILITY

In Vitro

H_2O : ≥ 50 mg/mL

* "≥" means soluble, but saturation unknown.

BIOLOGICAL ACTIVITY

Description

Endoproteinase Lys-C is a protease that cleaves proteins on the C-terminal side of lysine residues and is commonly used for protein sequencing[1].

In Vitro

This product can be used for: (1) protein sequence analysis; (2) synthesis of lysine-related derivatives.

Protocol

This product can be directly used for protein enzyme digestion. The recommended enzyme digestion ratio is 1:50-1:200 (W/W), and the enzyme digestion should be performed at 37℃ overnight.

Notes

(1) The optimal reaction pH of this product is 9.0-9.5, and the optimal reaction temperature is 30-37℃. It can still maintain high enzyme activity in the presence of 4 M urea or 0.1% SDS.

(2) Storage Buffer: 20 mM Tris-HCl, pH=8.0.

(3) Do not freeze and thaw repeatedly.

AIS has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Adv Biol (Weinh). 2025 Jan;9(1):e2400131.

REFERENCES

[1]. P A Jekel, et al. Use of endoproteinase Lys-C from Lysobacter enzymogenes in protein sequence analysis. Anal Biochem. 1983 Oct 15;134(2):347-54.

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