

Recombinant Lys-C, Lyophilized

Product information

Product No.	Size	Activity
YJ-O-132-20	20µg	>3.0AU/mg
YJ-O-132-50	50µg	>3.0AU/mg

Product description

Recombinant Lysyl Endopeptidase (Lys - C) is derived from *Achromobacter lyticus* and recombinantly expressed in *E. coli*. This product is a serine protease that can highly specifically hydrolyze amide, ester, and peptide bonds on the carboxyl side of lysine. The optimal reaction pH ranges from 9.0 to 9.5, and the optimal reaction temperature is between 30°C and 37°C. It can still maintain relatively high enzymatic activity in the presence of 4M urea or 0.1% SDS.

- Unit definition: In a 25 mmol/L Tris-HCl buffer at pH 9.0, under the condition of 37 °C, the amount of enzyme that catalyzes the formation of 1 µmol of AC-Lys-pNA in 1 minute is defined as one unit (AU).
- Storage solution (Before lyophilization): 5mM NaAc, 10mM EDTA, pH=5.5.

Product components

Components	Size1	Size2
Recombinant Lys-C, Lyophilized	20µg	50µg

Transportation and storage

- Storage: This product should be stored at 2-8°C, where it can be preserved for at least 12 months.
- Transportation: Ice pack.

Product application

- Protein sequence analysis
- Synthesis of lysine-related derivatives

Usage (for reference only)

- It is recommended to reconstitute this product with ultrapure water to a final concentration of 1 mg/ml. Once reconstituted, it can be directly used for protein digestion. Incubate the protein with Lys-C at a protease : protein ratio of 1:100 to 1:20.
- Digest at 37°C overnight.

Precaution

- After reconstitution, this product should be stored at -20°C , where it can remain stable for 6 months. Repeated freeze - thaw cycles should be avoided as much as possible;
- Please wear lab coat and disposable gloves when using;
- This product should not be used directly for clinical diagnosis and treatment.