Creative Enzymes
Diagnostic Enzymes

Recombinant Lysyl Endonuclease

Product Information

Cat#	DIA-836
Descriptions	Recombinant Lysyl Endonuclease acts as a sequence-specific protease that targets lysine-linked peptide bonds for precise cleavage, delivers high specificity and low non-specific degradation, and supports high-quality protein fragmentation for mass spectrometry and structural biology research.
Applications	Recombinant Lysyl Endonuclease is used for site-specific protein cleavage detection kits and mass spectrometry sample preparation reagent development.
Features	1. Animal origin free: recombinant trypsin is no exogenous virus contamination, and any animal origin material is not used in the production process. 2. Stable quality: Mass production can ensure stable and continuous batch production. It is no difference between the batch and the product quality is stable. 3. High purity: Higher specific activity. Host protein residues is less than the limits of biological products. 4. Lyophilized powder: The product is lyophilized powder and is easy to store and transport.
Enzyme Commission Number	EC 3.4.21.50
Molecular Weight	Approximately 31±3.1 kDa
Enzyme Source	Genetic engineering production, E. coli expression.
Activity	≥ 3.0 U/mg
Activity Definition	Under the condition of 25mmol/L pH9.0 Tris-HCl buffer and temperature of 37°C, the amount of enzyme needed to catalyze the production of 1μmol AC-Lys-pNA in 1min is an activity unit (AU).
Purity	≥ 90%
Storage	Freeze-dried powder can be stored at least one year below -20°C ; it can be stored for

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	7 days at 2-8°C after being dissolved in pure water. It is recommended to dilute the required concentration with 25 mmol/L Tris-HCl (pH8.5) and pack it. Store at -20°C for 6 months. Avoid repeated freezing and thawing after dissolution.
Usage & Dosage	1. The mass ratio of Lys-C to target protein = 1:1000-1:20000, suitable pH is 7.0-9.5, reaction temperature is 30-37°C, reaction time is 2-24 hours. 2. Users can optimize optimum temperature, reaction time and enzyme ratio according to research purpose. 3. Avoid enzyme inhibitors such as TLCK and guanidine hydrochloride in digestion system. 4. Reaction system containing 0.2% SDS, 1.0% Triton, 6mol/L urea, 0.5mol/L NaCl, 20% acetonitrile has no effect on digestion reaction.

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