Creative Enzymes
Diagnostic Enzymes

Recombinant Lysyl Edopeptidase

Product Information

Cat#	DIA-835
Descriptions	Recombinant Lysyl Edopeptidase is a serine endopeptidase that specifically hydrolyzes peptide bonds at the carboxyl terminus of lysine residues, generates well-defined peptide fragments with high cleavage specificity, and is ideally suited for protein primary structure analysis and proteomics sample preparation.
Applications	Recombinant Lysyl Edopeptidase is suitable for protein primary structure detection kits and proteomics sample fragmentation reagent development.
Features	1. No animal origin: no animal diseases, no pathogenic substances, no contamination by exogenous factors, and high safety. 2. Quality stability: This product is a lyophilized powder containing a biologically active protective agent. It has been mass-produced, and the difference between batches is small; the production scale is more than 1000 L.
CAS No.	72561-05-8
Molecular Weight	Approximately 36±3.6 kDa
Enzyme Source	Escherichia coli
Synonyms	2-Quinolinepropanoic acid, α-[[[1,2,3,4-tetrahydro-2-[(phenylmethoxy)carbonyl]-3-isoquinolinyl]carbonyl]amino]-; N-({2-[(Benzyloxy)carbonyl]-1,2,3,4-tetrahydro-3-isoquinolinyl}carbonyl)-3-(2-quinolinyl)alanine
Activity	≥ 3.0 U/mg
Activity Definition	At 30°C | pH 9.5 | the amount of enzyme that produces 1 μmol of p-nitroaniline per minute for the catalytic substrate is 1 AU.
Storage	It is transported in an ice pack to keep it active. It is transported in an ice pack to keep it active. Store at -15~-20°C, stable within 24 months.
Usage & Dosage	1. Protein preparation. The protein was dissolved in a solution of 25 mM Tris-HCl, pH 9.2. Proteins with low solubility or denaturation treatment can be solubilized by incubation with a minimum volume of denaturing agent such as 8 M urea or 6 M

Tel: 1-631-562-8517 1-516-512-3133
Email:info@creative-enzymes.com
Fax:1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Recombinant Lysyl Edopeptidase

guanidine hydrochloride at 25- 37°C for 1 h. Proteins that require disulfide reduction treatment can be added to DTT or β-mercaptoethanol at a final concentration of 5 mM and incubated at 50-60°C for 20 minutes to dissolve. The volume of the reaction solution was adjusted so that Tris-HCl was 25 mM, urea was 1 M or less, and guanidine hydrochloride was 0.1 M or less.

2. Enzyme preparation. The desired enzyme powder was weighed and dissolved in 25 mM Tris-HCl (pH 9.2) to give an enzyme solution concentration of 1-10 mg/ml.

3. Digestive response. The amount of 1 g of polypeptide or protein recommended enzyme is between 1 and 100 AU. It is recommended to react at 25-37°C for 2-18 h. If it is necessary to terminate the reaction, acetic acid or hydrochloric acid may be added to adjust the pH to acidity.

Tel: 1-631-562-8517 1-516-512-3133
Email:info@creative-enzymes.com
Fax:1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA