

Native *Flavobacterium* sp. Proline specific endopeptidase

Cat. No. DIA-213

Lot. No. (See product label)

Introduction

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| Description | Prolyl endopeptidase (PE) also known as prolyl oligopeptidase or post-proline cleaving enzyme is an enzyme that in humans is encoded by the PREP gene. |
| Applications | This enzyme is useful for the determination of amino acid sequences of peptides and proteins containing proline residues. |
| Synonyms | EC 3.4.21.26; post-proline cleaving enzyme; proline-specific endopeptidase; post-proline endopeptidase; proline endopeptidase; endoprololpeptidase; prolyl endopeptidase; prolyl oligopeptidase; PE |

Product Information

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| Source | Flavobacterium sp. |
| Appearance | White amorphous powder, lyophilized |
| EC Number | EC 3.4.21.26 |
| CAS No. | 72162-84-6 |
| Molecular Weight | approx. 78 kDa |
| Activity | Grade I 5.0U/mg-solid or more |
| Contaminants | Leucine aminopeptidase < 1.0×10 ⁻¹ % Trypsin-like activity < 1.0×10 ⁻¹ % |
| Isoelectric point | 9.1 |
| pH Stability | 5.5-8.5 (30°C,15hr) |
| Optimum pH | 6.5 |
| Thermal stability | below 40°C (pH 7.0,10 min) |
| Optimum temperature | 37°C (40°C) |
| Michaelis Constant | 2.5×10 ⁻⁵ M (Z-Gly-Pro-MCA), 1.4×10 ⁻⁴ M (Z-Gly-Pro-2NNap) |
| Structure | Monomer |
| Specificity | Y-Pro(Ala)-X (Y, peptide or N-protected amino acid; X, amino acid, peptide, amide, or ester) |
| Inhibitors | DFP, 3, 4-dichloroisocoumarin, Z-Gly-Pro-CH ₂ Cl |

Storage and Shipping Information

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| Stability | Stable at -20°C |
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