

## Native *Flavobacterium* sp. Proline specific endopeptidase

Cat. No. DIA-213

Lot. No. (See product label)

### Introduction

<b>Description</b>	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.
<b>Applications</b>	This enzyme is useful for the determination of amino acid sequences of peptides and proteins containing proline residues.
<b>Synonyms</b>	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

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

### Storage and Shipping Information

<b>Stability</b>	Stable at-20°C
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