

**Proline Specific Endopeptidase from Flavobacterium sp.**

**Product Code:** 172688

**EC no:** 3.4.21.26

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**SKU:** 172688

**Category:** [Enzymes](#)

## PRODUCT DESCRIPTION

### SPECIFICATIONS:

**EC 3.4.21.26**

**Product name:** Prolyl endopeptidase

**Appearance:** white amorphous powder lyophilized

**Activity:** Grade I, 5.0 U/mg-solid or more

**Contaminants:**

- Trypsin-like activity  $\leq 0.1\%$
- Leucine aminopeptidase  $\leq 0.1\%$

**Stability:** Stable at - 20 °C for at least 12 months

**Molecular weight:** Approx. 78,000

**Structure:** Monomer

**Isoelectric point** 9.1

**Michaelis constants:**

- $2.5 \times 10^{-5}$  M (Z-Gly-Pro-MCA),
- $1.4 \times 10^{-4}$  M (Z-Gly-Pro-2NNap)

**Inhibitors:** DFP, 3, 4-dichloroisocoumarin, Z-Gly-Pro-CH<sub>2</sub>Cl

**Optimum pH:** 6.5

**Optimum temperature:** 37°C (40°C)

**pH Stability:** 5.5 - 8.5 (30°C, 15hr)

**Thermal stability:** Below 40 °C (pH 7.0, 10min)

**Substrate specificity:** Y-Pro (Ala)-X (Y, peptide or N-protected amino acid; X, amino acid, peptide, amide, or ester)