

Proline Specific Endopeptidase from Flavobacterium sp.

Product Code: 172688

EC no: 3.4.21.26

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:

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

Inhibitors: DFP, 3, 4-dichloroisocoumarin, Z-Gly-Pro-CH₂Cl

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)