

## Proline specific endopeptidase, Enzyme Activity

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Catalog	Unit
TBP0040-50U	50 U
TBP0040-100U	100 U

### Preparation and Specification

Appearance: White amorphous powder, lyophilized

Activity: Gradel 5.0U/mg-solid or more

Contaminants: Leucine aminopeptidase  $\leq 1.0 \times 10^{-1}\%$   
Trypsin-like activity  $\leq 1.0 \times 10^{-1}\%$

Prolyl endopeptidase (EC 3.4.21.26)

X-Prolyl-peptide + H<sub>2</sub>O  $\longrightarrow$  X-Proline + Peptide

### Properties

Stability: Stable at -20°C for at least One year

Molecular weight: approx. 78,000

Isoelectric point: 9.1

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

Structure: Monomer

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 (pH7.0, 10min)

### Applications

This enzyme is useful for the determination of amino acid sequences of peptides and proteins containing proline residues.

For research use only