Creative Enzymes®

Native Flavobacterium sp. Proline specific endopeptidase

Cat. No. DIA-213

Lot. No. (See product label)

Introduction

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; endoprolylpeptidase; prolyl endopeptidase; prolyl oligopeptidase; PE

Product Information

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	GradeI 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_2Cl

Storage and Shipping Information

Stability	Stable at-20°C