Creative Enzymes®

Native Bacteria Achromopeptidase

Cat. No. NATE-0022

Lot. No. (See product label)

Introduction

Description	Lysyl endopeptidase (EC 3.4.21.50, Achromobacter proteinase I, Achromobacter lyticus alkaline proteinase I, protease I, achromopeptidase, lysyl bond specific proteinase) is an enzyme. This enzyme catalyses the following chemical reaction:Preferential cleavage:Lys-, including-Lys-Pro-. This enzyme is isolated from Achromobacter lyticus.
Applications	α-Hemolysin was used in a study to test the efflux pump and haemolysin activity of Escherichia coli of dairy origin. It was also used to test its adaptation to benzalkonium chloride and the effect of ciprofloxacin on biofilm formation.
Synonyms	Achromobacter proteinase I; Achromobacter lyticus alkaline proteinase I; protease I; achromopeptidase; lysyl bond specific proteinase; EC 3.4.21.50; 123175-82-6; Lysyl endopeptidase

Product Information

Source	Bacteria
Form	lyophilized powder
EC Number	EC 3.4.21.50
CAS No.	123175-82-6
Molecular Weight	~27 kDa
Activity	> 1,000 units/mg solid; > 20,000 units/mg solid
pH Stability	8.5-9
Optimum pH	8.5-9
Buffer	H2O: soluble 0.49-0.51 mg/mL
Unit Definition	One unit will produce a change in A600 of 0.001 per minute per mL at pH 8.0 at 37°C using a suspension of Micrococcus lysodeikticus as substrate (1 cm light path).

Storage and Shipping Information

Storage	2-8°C