Creative Enzymes®

Native Clostridium histolyticum Clostripain

Cat. No. NATE-0143

Lot. No. (See product label)

Introduction

Description	Clostripain from Clostridium histolyticum is composed of two polypeptide chains, with molecular masses of 41.7 kDa and 15.4 kDa. Clostripain has a highly restricted substRate specificity for Arg-Xaa peptide bonds. Therefore, clostripain has been explored as a potential enzyme for protein sequencing purposes. It has also been studied as a catalyst for condensation of pharmaceutically important peptides containing Arg-Pro bonds. The isoelectric point of the enzyme is 4.8-4.9 (at 8°C), and optimum pH is 7.4~7.8 (against α-benzoyl-arginine ethyl ester).
Synonyms	clostridiopeptidase B; clostridium histolyticum proteinase B; α-clostridipain; clostridiopeptidase; Endoproteinase Arg-C; EC 3.4.22.8; 9028-00-6

Product Information

Source	Clostridium histolyticum
Form	lyophilized powder
EC Number	EC 3.4.22.8
CAS No.	9028-00-6
Activity	> 20 units/mg solid
Unit Definition	One unit will hydrolyze 1.0 μmole of BAEE per min at pH 7.6 at 25°C in the presence of 2.5 mM DTT.

Storage and Shipping Information

Storage	2-8°C