

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 μ mole 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