

## 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  $\alpha$ -benzoyl-arginine ethyl ester).

**Synonyms** clostridiopeptidase B; clostridium histolyticum proteinase B;  $\alpha$ -clostripain; 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  $\mu$ 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