

Native Clostridium histolyticum Clostripain

Cat. No. Clostripain-01C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Clostridium protease is a collagenase-related double-chain protease isolated from Clostridium histolytica. Highly limited substrate specificity for Arg-Xaa peptide bonds. Therefore, clostridium protease has been explored as a potential protein sequencing enzyme. It has also been studied as a catalyst for the condensation of pharmaceutically important peptides containing Arg-Pro bonds. Activation depends on dithiothreitol, cysteine, or other agents containing sulfhydryl groups. The enzyme is inhibited by oxidants and sulfhydryl reactants as well as Co ²⁺ , Cu ²⁺ , Cd ²⁺ and heavy metal ions.
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Species	Clostridium histolyticum
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Form	Lyophilized powder
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Bio-activity	Activity: ≥50 U/mg dw. *Unit definition: At 25°C and pH 7.6, in the presence of dithiothreitol, one unit can hydrolyze 1 μmol of N-benzoyl-L-arginine ethyl ester per minute.
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Applications	It can serve as a catalyst for the condensation of important drug peptides containing Arg-Pro peptide bonds. It is used as a proteolytic enzyme in infusion solutions to assess its impact on the hematocrit of blood cells in the tube. It is also used for the restricted digestion of T4 bacteriophage DNA polymerase.
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Storage	Store at 2-8°C.
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 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA