

microbial collagenase

Cat. No. EXWM-4311

Lot. No. (See product label)

Introduction

Description Six species of metalloendopeptidase acting on native collagen can be isolated from

the medium of Clostridium histolyticum. Class I has forms α (68 kDa), β (115 kDa) and γ (79 kDa); class II has Δ (100 kDa), ϵ (110 kDa) and ζ (125 kDa). The two classes are immunologically crossreactive, but have significantly different sequences, and different specificities such that their actions on collagen are complementary. The enzymes also act as peptidyl-tripeptidases. Variants of the enzyme have been purified from Bacillus cereus, Empedobacter collagenolyticum, Pseudomonas marinoglutinosa, and species of Vibrio, Vibrio B-30 (ATCC 21250) and

V. alginolyticus (previously Achromobacter iophagus). Also known from

Streptomyces sp.. The Vibrio enzyme is the type example of peptidase family M9.

Synonyms Clostridium histolyticum collagenase; clostridiopeptidase A; collagenase A;

collagenase I; Achromobacter iophagus collagenase; collagenase;

aspergillopeptidase C; nucleolysin; azocollase; metallocollagenase; soycollagestin;

Clostridium histolyticum proteinase A; clostridiopeptidase II; MMP-8;

clostridiopeptidase I; collagen peptidase; collagen protease; collagenase MMP-1;

metalloproteinase-1; kollaza; matrix metalloproteinase-1; MMP-1; matrix metalloproteinase-8; matirx metalloproteinase-18; interstitial collagenase

Product Information

Form Liquid or lyophilized powder

EC Number EC 3.4.24.3

CAS No. 9001-12-1

Reaction Digestion of native collagen in the triple helical region at +Gly bonds. With synthetic

peptides, a preference is shown for Gly at P3 and P1', Pro and Ala at P2 and P2',

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and hydroxyproline, Ala or Arg at P3'

Notes This item requires custom production and lead time is between 5-9 weeks. We can

custom produce according to your specifications.

Storage and Shipping Information

Storage Store it at +4 °C for short term. For long term storage, store it at -20 °C \sim -80 °C.