



>>Entry Name: Collagenase

Synonym(s): Clostridiopeptidase A. Iruxol. Novuxol. Santyl. Varilisin. EC 3.4.24.7 (interstitial collagenase). EC 3.4.24.3 (microbial collagenase)

CAS Registry Number: 9001-12-1

General Statement: Enzyme. Member of the matrix metalloproteinase family (MMP)

Biological Source: Interstitial collagenase (MMP-1) is the most abundant collagenase produced in mammalian tissue. Several forms of microbial collagenase isol. from *Clostridium histolyticum*

Biological Use/Importance: Catalyses the hydrolysis of peptide bonds in collagen. Preps. containing collagenase are used topically for the debridement of dermal ulcers and burns. Also used for the treatment of herniated discs

References:

Keller, S. *et al.*, *Arch. Biochem. Biophys.*, 1963, **101**, 81-87, (*isol, purifn*)

Mandl, I. *et al.*, *Biochemistry*, 1964, **3**, 1737, (*struct*)

Lazarus, G.S., *Br. J. Dermatol.*, 1972, **86**, 193-199, (*rev*)

Pilcher, B.K. *et al.*, *Arch. Dermatol. Res.*, 1998, **290**, S37-S46, (*rev*)

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Brinckerhoff, C.E. *et al.*, *Clin. Cancer Res.*, 2000, **6**, 4823-4830, (*rev*)