ALPHA DIAGNOSTIC INTERNATIONAL

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Product Data Sheet

Cat# **SP-101103-5**

Description: MMP-3 Inhibitor I (AA: Ac-Arg-Cys-Gly-Val-Pro-Asp-NH2) (MW: 686.8)

Size: 5 mg

Purity: >95%

Store: Desiccated at -20oC.

Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix and during tissue remodeling in normal physiological processes, such as embryonic development and reproduction, as well as in disease processes, such as arthritis, and tumour metastasis. Most MMPs are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. The MMP-3 enzyme degrades collagen types II, III, IV, IX, and X, proteoglycans, fibronectin, laminin, and elastin. In addition, MMP-3 can also activate other MMPs such as MMP-1, MMP-7, and MMP-9, rendering MMP-3 crucial in connective tissue remodeling. The enzyme is thought to be involved in wound repair, progression of atherosclerosis, and tumor initiation.

Stromelysin-1 also known as matrix metalloproteinase-3 (MMP-3) is an enzyme that in humans is encoded by the MMP3 gene. The MMP3 gene is part of a cluster of MMP genes which localize to chromosome 11q22.3. MMP-3 has an estimated molecular weight of 54 kDa.

MMP-3 inhitor (#SP-101103-5) is one of many peptide inhibitors of MMP-3 that are used in the study of MMP-3.

Refs: Farina AR (2002) Eur. J. Biochem. 269,4476-4483; Basset P (1990) Nture 348, 699-704;

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