



Product Datasheet

Product Name	Matrix Metalloproteinase-3 Human Recombinant
Cata No	CB500463
Source	<i>Escherichia Coli.</i>
Synonyms	Stromelysin-1, EC 3.4.24.17, Matrix metalloproteinase-3, MMP-3, Transin-1, SL-1, STMY, STR1, STMY1, MGC126102, MGC126103, MGC126104.

Description

MMP-3 enzyme is also known as Stromelysin-1 or as Transin-1 which hydrolyzes natural collagen at physiological pH and temperature. It dissolves the intervertebral nucleus pulposus and annulus fibrosus of Herniated Lumbar Intervertebral Disk . MMP-3 hydrolyzes components of the extracellular matrix like proteoglycan, laminin, fibronectin, gelatin and collagen types III, IV and IX. It also activates pro-MMP-9 and pro-MMP-8 and superactivates plasmin activated MMP-1. MMP-3 is secreted as a latent proenzyme and is activated by a variety of proteinases, e.g. plasmin, trypsin, chymotrypsin, cathepsin G or human neutrophil elastase. MMP-3 was found to be capable of activating the precursor of IL1-beta.

Matrix Metalloproteinase-3 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 230 amino acids and having a molecular mass of 22 kDa.

The MMP-3 is purified by proprietary

chromatographic techniques.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Purity

Greater than 98% as determined by both:

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

Formulation

The protein was lyophilized from a concentrated (1 mg/ml) solution with no additives.

Stability

Lyophilized Matrix Metalloproteinase-3 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution MMP-3 should be stored at 4°C between 2-7 days and for future use below -18°C.

Please prevent freeze-thaw cycles.