



## RayBiotech, Inc.

3607 Parkway Lane suite 100  
Norcross, GA 30092  
Tel: 770-729-2992, 1-888-494-8555  
Fax: 770-206-2393  
Website: [www.raybiotech.com](http://www.raybiotech.com)  
Email: [info@raybiotech.com](mailto:info@raybiotech.com)

# Certificate of Analysis and Data Sheet

## Recombinant Human Matrix Metalloproteinase-3 (MMP-3)

### Catalog No.

228-11129

### Source

HEK293 cells.

### *Synonyms*

Stromelysin-1, EC 3.4.24.17, Matrix metalloproteinase-3, MMP-3, Transin-1, SL-1, STMY, STR1, STMY1, MGC126102, MGC126103, MGC126104.

### *Introduction*

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.

### *Description*

MMP-3 Human Recombinant produced in HEK293 cells is a proform of the Human MMP3 [Tyr18-Cys477 (Lys45Glu)] and fused with a polyhistidine tag at the C-terminus, having an Mw of 52kDa. MMP-3 is purified by proprietary chromatographic techniques.

### *Physical Appearance*

Sterile Filtered colorless solution.

### *Formulation*

The MMP-3 is supplied as a 0.2µm filtered solution in Tris, NaCl and Brij35.

**The products are furnished for LABORATORY RESEARCH USE ONLY.  
Not for diagnostic or therapeutic use.**



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### *Stability*

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time.

**Avoid multiple freeze-thaw cycles.**

### *Purity*

Greater than 95% as determined by SDS-PAGE.

### *Biological Activity*

The activity was measured by its ability to cleave the fluorogenic peptide substrate, Mca-RPKPVE-Nval-WRK(Dnp)-NH<sub>2</sub>. The specific activity is > 150 pmoles/min/μg.

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