

## Matrix Metalloproteinase 3 (MMP-3) Assay Kit | MMP-3 assay kit

Matrix Metalloproteinase 3 (MMP-3) Activity Fluorometric Assay Kit

CATALOG #  
**AAA179635**

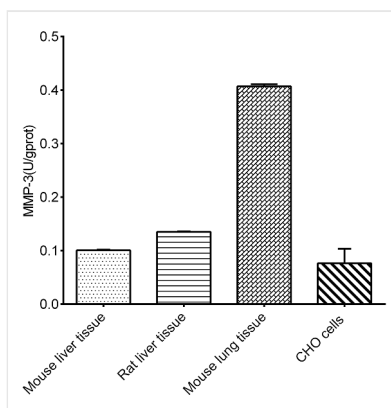
### PRODUCT SYNONYMS

Matrix Metalloproteinase 3 (MMP-3); Matrix Metalloproteinase 3 (MMP-3) Activity Fluorometric Assay Kit; MMP-3 assay kit

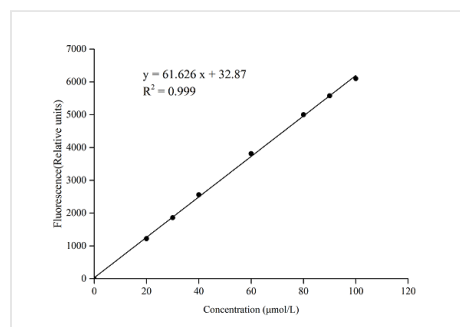
### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Assay Type              | Enzyme Activity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Samples                 | serum, plasma, animal tissue, cell                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Detection Range         | 0.03-9.66 U/L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Sensitivity             | 0.03 U/L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Detection Type          | Fluorescence method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Detection Instrument    | Fluorescence Microplate reader                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Precision               | Inter CV: 7.5-7.7%<br>Intra CV: 2.0-4.0%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Research Area           | Amino Acids and Proteins                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Test Principle          | This kit is detected by fluorescence resonance energy transfer (FRET) method. MCA and Dnp are connected to two ends on the natural substrate of MMP-3 enzyme. When MMP-3 protease does not cut the substrate, the two groups are close enough to undergo fluorescence resonance energy transfer, that is, Dnp can quench the fluorescence of MCA, resulting in undetectable fluorescence. When the substrate is cut by MMP-3 protease, the ends and ends of the polypeptide are separated, the two groups are separated, the fluorescence of MCA is no longer extinguished by Dnp, and the fluorescence of MCA can be detected, so that the enzyme activity of MMP-3 protease can be detected very sensitively through fluorescence detection. MCA has a maximum excitation wavelength of 325 nm and a maximum emission wavelength of 393 nm. |
| Preparation and Storage | This product can be stored at -20 degree C for 12 months with shading light.<br>Shipping: Ice bag                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

### IMAGES



Application Data



Application Data

Application Data

ADDITIONAL INFORMATION

|                                               |                                                  |
|-----------------------------------------------|--------------------------------------------------|
| Product Categories/Family for MMP-3 assay kit | Cell Metabolism Assays; Amino Acids and Proteins |
|-----------------------------------------------|--------------------------------------------------|

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/assay-kits/matrix-metalloproteinase-3-mmp-3/179635>