

**Synonym**

CHDS6

**Source**

Human MMP-3, His Tag(MM3-H52H3) is expressed from human 293 cells (HEK293). It contains AA Tyr 18 - Thr 272 (Accession # [P08254-1](#)).

Predicted N-terminus: Tyr 18

**Molecular Characterization**

**MMP-3(Tyr 18 - Thr 272)**  
**P08254-1**      **Poly-his**

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 30.7 kDa. The protein migrates as 32 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**

Less than 1.0 EU per  $\mu$ g by the LAL method / rFC method.

**Purity**

>95% as determined by SDS-PAGE.

**Formulation**

Supplied as 0.2  $\mu$ m filtered solution in 25 mM MES, 150 mM NaCl, pH6.0 with glycerol as protectant.

Contact us for customized product form or formulation.

**Shipping**

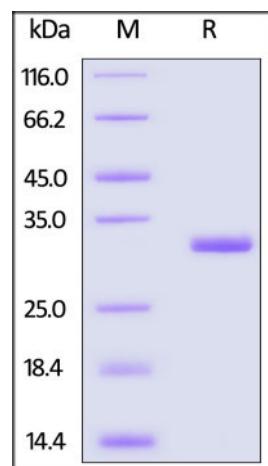
*This product is supplied and shipped with dry ice, please inquire the shipping cost.*

**Storage**

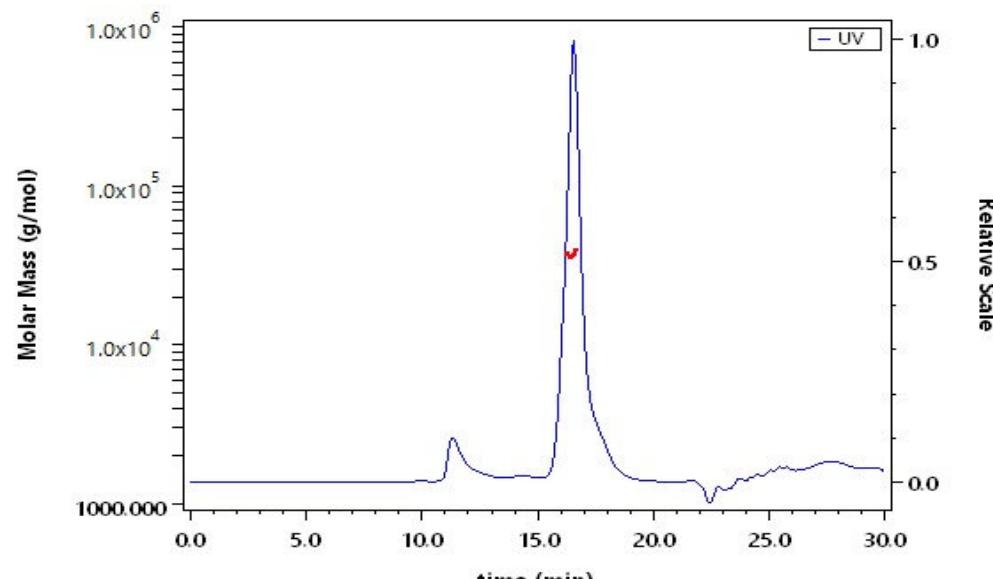
*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- The product MUST be stored at -20°C or lower upon receipt;
- -20°C for 3 months under sterile conditions.

**SDS-PAGE**

Human MMP-3, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

**SEC-MALS**

The purity of Human MMP-3, His Tag (Cat. No. MM3-H52H3) is more than 85% and the molecular weight of this protein is around 30-43 kDa verified by SEC-MALS.

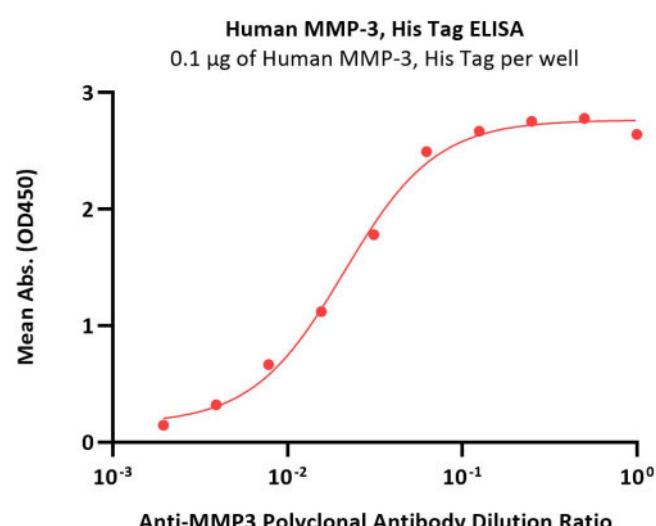
[Report](#)

**Bioactivity-ELISA**

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Immobilized Human MMP-3, His Tag (Cat. No. MM3-H52H3) at 1 µg/mL (100 µL/well) can bind various dilution ratio of Anti-MMP3 Polyclonal Antibody (Routinely tested).

### Bioactivity

Measured by its ability to cleave the fluorogenic peptide substrate, Mca-RPKPVE-Nval-WRK(Dnp)-NH<sub>2</sub>. The specific activity is >422 pmol/min/µg (QC tested).

### Background

Matrix metalloproteinase 3 (MMP-3), also known as stromelysin 1 and progelatinase, is encoded by the MMP3 gene. The expression of MMP3 is mainly regulated at the transcriptional level, where gene promoters respond to a variety of stimuli including growth factors, cytokines, carcinogens and proto-oncogene products. MMP-3 degrade II, III, IV, IX and X collagen, proteoglycan, fibronectin, laminin, and elastin. In addition, MMP-3 can also activate other MMPs such as MMP-1, MMP-7 and MMP-9, so MMP-3 plays a key role in connective tissue remodeling. This enzyme is involved in wound repair, atherosclerotic progression, and tumor initiation. Studies of MMP-3 wild type and gene knockout in mice have shown that MMP-3 increases the permeability of the blood-brain barrier after traumatic injury. Nuclear MMP-3 works as a transcription factor and protease.

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