

Human MMP-3 Protein, His Tag (Pro-form, MALS verified)

Catalog # MM3-H52H3



BIOSYSTEMS
Acro

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 μg by the LAL method / rFC method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Supplied as 0.2 μm 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.

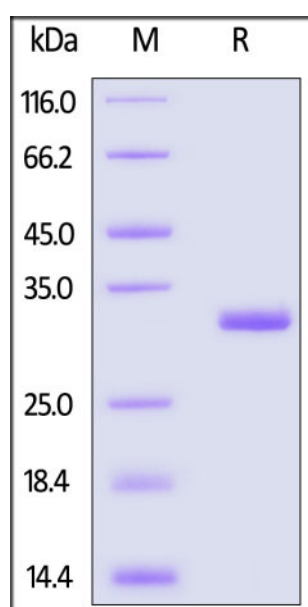
This product is stable after storage at:

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

ACRO Quality Management System

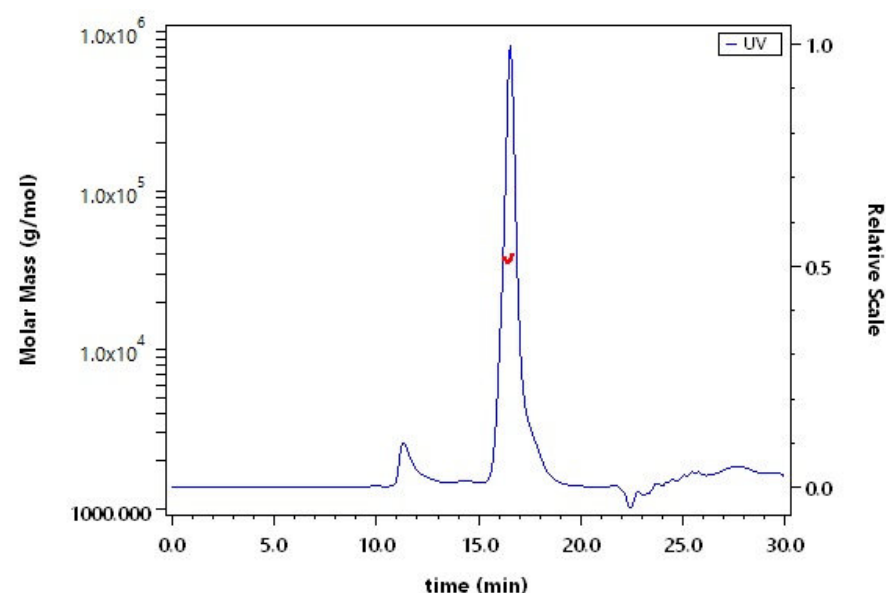
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



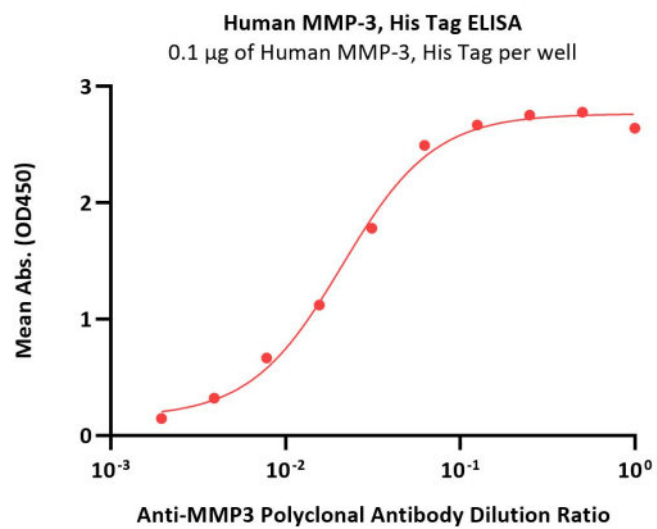
Human MMP-3, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

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.

Bioactivity-ELISA



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)-NH₂. 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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