

# Recombinant Human MMP-2 (C-6His)

Catalog # EPT010

**Expression Host** Human Cells

**DESCRIPTION** Recombinant Human Matrix Metalloproteinase-2 is

produced by our Mammalian expression system and

the target gene encoding Ala30-Cys660 is expressed

with a 6His tag at the C-terminus. The proenzyme

needs to be activated by APMA for an activated form.

Accession P08253

**Synonyms** 72 kDa Type IV Collagenase; 72 kDa Gelatinase;

Gelatinase A; Matrix Metalloproteinase-2; MMP-2;

TBE-1; MMP2; CLG4A

Mol Mass 72 KDa

**AP Mol Mass** 72 KDa, reducing conditions

**Purity** Greater than 95% as determined by reducing

SDS-PAGE.

**Endotoxin** Less than 0.1 ng/ $\mu$ g (1 EU/ $\mu$ g) as determined by LAL

test.

**FORMULATION** Lyophilized from a 0.2 µm filtered solution of 20mM



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Tris-HCl, 150mM NaCl, pH 7.5.

### RECONSTITUTION

Always centrifuge tubes before opening.Do not mix by vortex or pipetting.

It is not recommended to reconstitute to a concentration less than 100µg/ml.

Dissolve the lyophilized protein in distilled water.

Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

#### **SHIPPING**

The product is shipped at ambient temperature.

Upon receipt, store it immediately at the temperature listed below.

#### **STORAGE**

Lyophilized protein should be stored at < -20 ° C, though stable at room temperature for 3 weeks.

Reconstituted protein solution can be stored at 4-7°C for 2-7 days.

Aliquots of reconstituted samples are stable at < -20° C for 3 months.

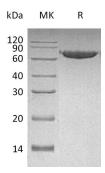
#### **BACKGROUND**

72 kDa type IV collagenase also known as matrix metalloproteinase-2 (MMP-2) and gelatinase A is an enzyme that in humans is encoded by the MMP2 gene.It belongs to the matrix metalloproteinase (MMP) family. Matrix metalloproteinases (MMPs) are a





family zinc-dependent endopeptidases of degrade components of the extracellular matrix (ECM) and play essential roles in various physiological processes such as morphogenesis, differentiation, angiogenesis and tissue remodeling, as well as pathological including inflammation, processes arthritis, cardiovascular diseases, pulmonary diseases and tumor invasion. MMP-2 is ubiquitinous metalloproteinase that is involved in diverse functions such as remodeling of the vasculature, angiogenesis, tissue repair, invasion. inflammation, tumor atherosclerotic plaque rupture, as well as degrading extracellular matrix proteins. MMP-2 can also act on several nonmatrix proteins such as big endothelial 1 and beta-type CGRP promoting vasoconstriction. MMP-2 cleaves KISS at a Gly-|-Leu bond and appears to have a role in myocardial cell death pathways.



## **SDS-PAGE**



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