

# Recombinant Human MMP-2/CLG4A protein (His tag)

Catalog Number:PDEH100254



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

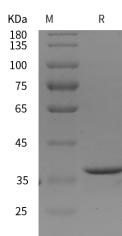
## Description

<b>Synonyms</b>	72 kDa Type IV Collagenase;72 kDa Gelatinase;Gelatinase A;Matrix Metalloproteinase-2;MMP-2;TBE-1;MMP2;CLG4A;CLG4;MMP-II;MONA;TBE-1
<b>Species</b>	Human
<b>Expression Host</b>	E.coli
<b>Sequence</b>	Lys 359-Cys 660
<b>Accession</b>	P08253
<b>Calculated Molecular Weight</b>	33.1 kDa
<b>Observed molecular weight</b>	38 kDa
<b>Tag</b>	N-His

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	Please contact us for more information.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 95 % as determined by reducing SDS-PAGE.

## 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 of zinc-dependent endopeptidases that 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 processes including inflammation; 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; tumor invasion; inflammation; atherosclerotic

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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-l-Leu bond and appears to have a role in myocardial cell death pathways.

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