

Datasheet for ABIN7505160

## MMP2 Protein (AA 359-660) (His tag)



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### Overview

Quantity:	100 µg
Target:	MMP2
Protein Characteristics:	AA 359-660
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MMP2 protein is labelled with His tag.

### Product Details

Sequence:	Lys 359-Cys 660
Characteristics:	A DNA sequence encoding the Human MMP-2/CLG4A protein (P08253) (Lys 359-Cys 660) was expressed with N-His tag.
Purity:	> 95 % as determined by reducing SDS-PAGE.

### Target Details

Target:	MMP2
Alternative Name:	MMP-2 ( <a href="#">MMP2 Products</a> )
Background:	<p>Abbreviation: MMP-2,CLG4A</p> <p>Target Synonym: 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</p> <p>Background: 72 kDa type IV collagenase also known as matrix metalloproteinase-2 (MMP-2)</p>

## Target Details

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 ubiquitous metalloproteinase that is involved in diverse functions such as remodeling of the vasculature, angiogenesis, tissue repair, tumor invasion, inflammation, 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-I-Leu bond and appears to have a role in myocardial cell death pathways.

Molecular Weight: Calculated MW: 33.11 kDa  
Observed MW: 38 kDa

UniProt: [P08253](#)

Pathways: [Activation of Innate immune Response](#)

## Application Details

Restrictions: For Research Use only

## Handling

Format: Lyophilized

Buffer: Lyophilized from sterile PBS, pH 7.4.  
Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.

Storage: 4 °C, -20 °C, -80 °C

Storage Comment: 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.

Expiry Date: 12 months