

# Recombinant Human MMP-2 Protein

**Catalog No.:** RP01889 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	4313	P08253

### Tags

N-His

### Synonyms

72 kDa gelatinase; CLG4; CLG4A72 kDa type IV collagenase; collagenase type IV-A; EC 3.4.24; EC 3.4.24.24; Gelatinase A; matrix metalloproteinase 2 (gelatinase A; 72kDa gelatinase; 72kDa type IV collagenase); matrix metalloproteinase 2 (gelatinase A; 72kD ge

## Product Information

Source	Purification
HEK293 cells	> 97% by SDS-PAGE.

### Endotoxin

<0.01EU/μg of the protein by LAL method.

### Formulation

Lyophilized from a 0.22 μm filtered solution of 50mM Tris, 10mM CaCl<sub>2</sub>, 150mM NaCl, 0.05%(w/v) Brij35, pH7.5.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize freeze-thaw cycles.

## Background

Matrix metalloproteinases are a family of zinc and calcium dependent endopeptidases with the combined ability to degrade all the components of the extracellular matrix. MMP-2 (gelatinase A), a type IV collagenase, can degrade a broad range of substrates including type IV, V, VII and X collagens as well as elastin and fibronectin. It is believed to act synergistically with interstitial collagenase (MMP-1) in the degradation of fibrillar collagens as it degrades their denatured gelatin forms. MMP-2 has been shown to be associated with many connective tissue cells as well as neutrophils, macrophages and monocytes. Structurally, MMP-2 may be divided into several distinct domains: a pro-domain which is cleaved upon activation; a catalytic domain containing the zinc binding site; a fibronectin-like domain thought to play a role in substrate targeting; and a carboxyl terminal (hemopexin-like) domain containing 2 N-linked glycosylation sites.

## Basic Information

### Description

Recombinant Human MMP-2 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ala30-Cys660) of Human MMP-2 (Accession #NP\_004521.1) fused with a His tag at the N-terminus.

### Bio-Activity

### Storage

Store the lyophilized protein at -20°C to -80°C for long term.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

## Contact

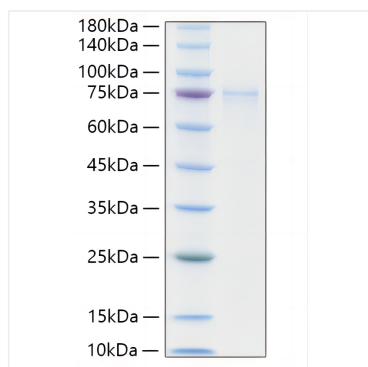
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## Validation Data

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Recombinant Human MMP-2 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 75 kDa.