

## Human recombinant MMP2 (active) protein, AF

Catalog Number: PROTP08253-4

### Overview

Product Name	Human recombinant MMP2 (active) protein, AF
Description	Active matrix metalloproteinase-2 (Active MMP-2) is a 63 kDa matrix metalloproteinases with 558 amino acid residues. MMP-2 is mainly expressed from extracellular matrix organization. Functionally, it can degrade type IV collagen and involves processes of the vasculature, angiogenesis, tissue repair, tumor invasion, inflammation, and atherosclerotic plaque rupture.
Size	5ug,20ug,100ug
Tag	His Tag (C-term)
Form	Lyophilized
Source	Escherichia coli
Formulation	The protein was lyophilized from a 0.2 um filtered solution containing 1X PBS, pH 8.0. If you have any concerns or special requirements, please confirm with us.

### Storage

Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.

### Purity

>95% as determined by SDS-PAGE.

### Molecular weight

The protein has a calculated MW of 63.00 kDa. The protein migrates as 66 kDa under reducing condition (SDS-PAGE analysis).

### Activity

Testing in process

### Endotoxin

<0.1 EU per 1 ug of the protein by the LAL method.

### Amino Acid Sequence

MYNFFPRKPKWDKNQITYRIIGYTPDLDPETVDDAFARAFQVWSDVTPLRFSRIHDGEADIMINFRWEHGDGYFPDGDGLLAHAFAPGTGVGGDS  
HFDDDELWTLGEGQVVRVKYGNADGEYCKFPFLFNGKEYNSCTDTGRSDGFLWCSTTYNFEKDGKYGFCPHEALFTMGGNAEGQPCKFPFRFQGTS  
YDSCTEGRTDGYRWCGTTEDYDRDKKYGFCPETAMSTVGGNSEGAPCVFPFTFLGNKYESCTSAGRSDGKMWCATTANYDDDRKWGFCPDQGYS  
LFLVAAHEFGHAMGLEHSQDPGALMAPIYTYTKNFRLSQDDIKGIQELYGASPDIDLGTGPTPLGPVTPEICKQDIVFDGIAQIRGEIFFFKDRFIWRTVT  
PRDKPMGPLLVAWFPELPEKIDAVYEAPQEEKAVFFAGNEYWIYSASTLERGYPKPLTSLGLPPDVQRVDAAFNWSKNKKTIFAGDKFWRYNEVKK  
KMDPGFPKLIADAWNAIPDNLDVVDLQGGGHSYFFKGAYYKLENQSLKSVKFGSIKSDWLGC with polyhistidine tag at the C-terminus.

### Reconstitution

Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H<sub>2</sub>O to a concentration not less than 100 ug/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

## Usage

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