

[Go to Product page](#)

## Datasheet for ABIN7520311 **MMP1 Protein (His tag)**

### Overview

Quantity:	100 µg
Target:	MMP1
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This MMP1 protein is labelled with His tag.

### Product Details

Purpose:	Active Recombinant Human MMP-1 Protein
Sequence:	FPATLETQEQ DVDLVQKYLE KYYNLKN DGR QVEKRRNSGP VVEK LKQMQE FFGLKVTGKP DAETLKVMKQ PRCGV PDVAQ FVLTEGNPRW EQTHLTYRIE NYTPDLPRAD VDHAIEKAFQ LWSNV TPLTF TKVSE GQADI MISFVRGDHR DNSPFDGPGG NLAHAFQPGP GIGGDAH FDE DERWTN NFRE YNLHRVAAHE LGHSLGLSHS TDIGALMYP S YTFSGDVQLA QDDIDGIQAI YGRSQNPVQP IGPQTPKACD SKLTFDAITT IRGEVMFFKD RFYMRTNPFY PEVELNFISV FWPQLPNGL E AAYEFADRDE VRFFKGNKYW AVQQQNVLHG YPKDIYSSFG FPRTVKHIDA ALSEENTGKT YFFVANKYWR YDEYKRSM DP GYPKMIAHDF PGIGHKVD AV FMKDGFFYFF HGTRQYKFDP KTKRILTLQK ANSWFNCRKN
Specificity:	Phe20-Asn469
Purity:	> 97 % by SDS-PAGE.
Sterility:	0.22 µm filtered

## Product Details

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Endotoxin Level:	< 0.1 EU/µg of the protein by LAL method.
Biological Activity Comment:	1.Measured in a cell migration assay using A549 cells. 1 ng/mL of Recombinant Human MMP-1 can effectively induce A549 cells migration. 2.Measured by its ability to cleave the fluorogenic peptide substrate, Mca-PLGL-Dpa-AR-NH2. The specific activity is >997 pmol/min/µg.

## Target Details

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Target:	MMP1
Alternative Name:	MMP-1 ( <a href="#">MMP1 Products</a> )
Background:	<p>Description: MMP1, also known as MMP-1, contains 4 hemopexin-like domains and is a member of the matrix metalloproteinase (MMP) family. Matrix metalloproteases, also called matrixins, are zinc-dependent endopeptidases that are the major proteases involved in ECM degradation. MMPs are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. MMP1 is expressed by fibroblasts, keratinocytes, endothelial cells, monocytes and macrophages.Mutations of MMP1 are associated with chronic obstructive pulmonary disease (COPD).</p> <p>Name: MMP1,CLG,CLGN</p>
Gene ID:	4312
UniProt:	<a href="#">P03956</a>

## Application Details

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Restrictions:	For Research Use only
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## Handling

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Format:	Lyophilized
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 free-thaw cycles.
Buffer:	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.
Storage:	-20 °C,-80 °C

## Handling

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Storage Comment: 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.