

Recombinant Human Matrix Metalloproteinase 2 (gelatinase A, 72kDa gelatinase, 72kDa type IV collagenase)

Cat. No. MMP2-1716H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant humanMPP2 expressed by CHOcells is a 72 kDa Proenzyme protein.
Species	Human
Source	Human
Description	72 kDa type IV collagenase also known as matrix metalloproteinase-2 (MMP2) and gelatinase A is an enzyme that in humans is encoded by the MMP2 gene. Proteins of the matrix metalloproteinase (MMP) family 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.
Concentration	Batch dependent - please inquire should you have specific requirements.
Form	150mM NaCl, 20mM Tris-HCl, 5mM CaCl ₂ , with 0.05% BRIJ -35 Detergent, pH 7.4.
Purity	> 90% pure by SDS PAGE
Molecular Mass	72 kDa
Applications	Numerous applications are possible with this product and should be tested by the end user under their own laboratory conditions.

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Storage	Aliquot and store at -70 deg C or lower. Avoid repeated freeze/thaw cycles.
Official Symbol	MMP2
GENE INFORMATION	
Gene Name	MMP2 matrix metalloproteinase 2 (gelatinase A, 72kDa gelatinase, 72kDa type IV collagenase) [Homo sapiens]
Synonyms	MMP2; matrix metalloproteinase 2 (gelatinase A, 72kDa gelatinase, 72kDa type IV collagenase); CLG4; MONA; CLG4A; TBE-1; MMP-II; 72 kDa type IV collagenase; MMP-2; gelatinase A; 72 kDa gelatinase; OTTHUMP00000164261; collagenase type IV-A; neutrophil gelatinase; matrix metalloproteinase-2; matrix metalloproteinase-II
Gene ID	4313
mRNA Refseq	NM_001127891
Protein Refseq	NP_001121363
MIM	120360
UniProt ID	P08253
Chromosome Location	16q13-q21
Pathway	ATF-2 transcription factor network; Angiotensin receptor Tie2-mediated signaling; Bladder cancer; Diabetes pathways; Direct p53 effectors; FOXM1 transcription factor network; GnRH signaling pathway; IL-3 Signaling Pathway; LPA receptor mediated events; Leukocyte transendothelial migration; Matrix Metalloproteinases; Osteopontin-

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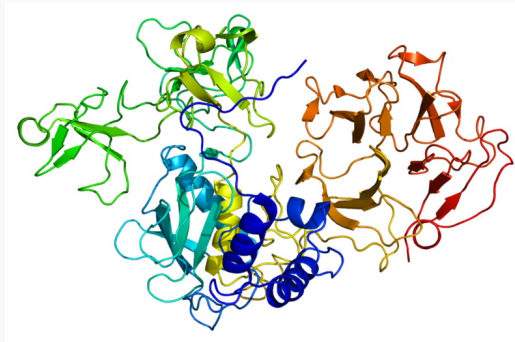
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mediated events; Pathways in cancer; Plasma membrane estrogenreceptor signaling; Regulation of Insulin-like Growth Factor (IGF) Activityby Insulin-like Growth Factor Binding Proteins (IGFBPs); Regulation ofWnt-mediated beta catenin signaling and target gene transcription;Syndecan-2-mediated signaling events; Validated transcriptional targets ofAP1 family members Fra1 and Fra2; amb2 Integrin signaling

Function

metal ion binding; metalloendopeptidase activity; peptidase activity; zinc ionbinding

**PDB rendering based
on 1ck7.**



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