

## ARG80145 Human MMP1 (Total) ELISA kit

Package: 96 wells  
Store at: 4°C

### Component

Cat. No.	Component Name	Package	Temp
ARG80145-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG80145-002	Standard (Lyophilized)	3 X 2 ng/vial	4°C
ARG80145-003	Standard diluent buffer	20 ml	4°C
ARG80145-004	Antibody conjugate concentrate	400 µl	4°C
ARG80145-005	Antibody diluent buffer	16 ml	4°C
ARG80145-006	HRP-Streptavidin concentrate	400 µl	4°C (Protect from light)
ARG80145-007	HRP-Streptavidin diluent buffer	16 ml	4°C
ARG80145-008	20X Wash buffer	50 ml	4°C
ARG80145-009	TMB substrate	12ml	4°C (Protect from light)
ARG80145-010	STOP solution	12ml	4°C
ARG80145-011	Plate sealer	4 strips	Room temperature

### Summary

Product Description	ARG80145 Human MMP1 (Total) ELISA kit is an Enzyme Immunoassay kit for the quantification of Human MMP1 (Total) in Serum, Plasma, Cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	No significant cross-reactivity or interference with Human MMP-2,3,7,8,9,10,12,13,16, TIMP-1,2,3,4
Target Name	MMP1
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm
Sensitivity	30 pg/ml
Sample Type	Serum, Plasma, Cell culture supernatants
Standard Range	62.5 - 4000 pg/ml
Sample Volume	100 µl

Precision	CV: less than10%
Alternate Names	MMP-1; CLG; Fibroblast collagenase; Matrix metalloproteinase-1; CLGN; EC 3.4.24.7; Interstitial collagenase

## Application Instructions

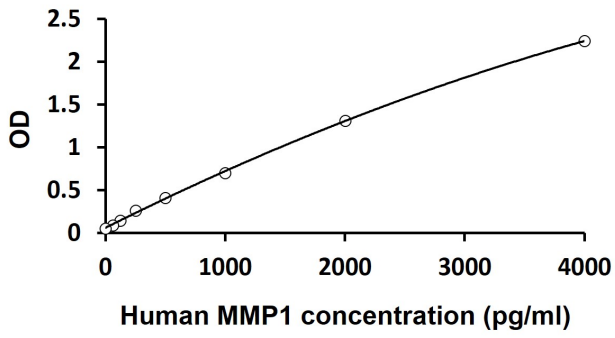
Assay Time	4 hours
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## Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

Database links	<a href="#">GeneID: 4312 Human</a> <a href="#">Swiss-port # P03956 Human</a>
Gene Symbol	MMP1
Gene Full Name	matrix metalloproteinase 1
Background	<p>The matrix metalloproteinases (MMPs) are a family of at least eighteen secreted and membrane-bound zincendopeptidases. Collectively, these enzymes can degrade all the components of the extracellular matrix, including fibrillar and non-fibrillar collagens, fibronectin, laminin and basement membrane glycoproteins. In general, a signal peptide, a propeptide, and a catalytic domain containing the highly conserved zinc-binding site characterizes the structure of the MMPs. In addition, fibronectin-like repeats, a hinge region, and a C-terminal hemopexin-like domain allow categorization of MMPs into the collagenase, gelatinase, stomelysin and membrane-type MMP subfamilies. All MMPs are synthesized as proenzymes, and most of them are secreted from the cells as proenzymes. Thus, the activation of these proenzymes is a critical step that leads to extracellular matrix breakdown. MMPs are considered to play an important role in wound healing, apoptosis, bone elongation, embryo development, uterine involution, angiogenesis and tissue remodeling, and in diseases such as multiple sclerosis, Alzheimer's, malignant gliomas, lupus, arthritis, periodontitis, glomerulonephritis, atherosclerosis, tissue ulceration, and in cancer cell invasion and metastasis.</p>
Highlight	<p>Related products:  <a href="#">MMP1 antibodies</a>; <a href="#">MMP1 ELISA Kits</a>;</p> <p>Related news:  <a href="#">Detecting MMPs and their non-ECM substrates</a></p> <p>New ELISA data calculation tool:  <a href="#">Simplify the ELISA analysis by GainData</a></p>
Research Area	Cancer kit; Cell Biology and Cellular Response kit; Signaling Transduction kit
PTM	<p>Undergoes autolytic cleavage to two major forms (22 kDa and 27 kDa). A minor form (25 kDa) is the glycosylated form of the 22 kDa form. The 27 kDa form has no activity while the 22/25 kDa form can act as activator for collagenase.</p> <p>Tyrosine phosphorylated in platelets by PKDCC/VLK.</p>



ARG80145 Human MMP1 (Total) ELISA kit standard curve image

ARG80145 Human MMP1 (Total) ELISA kit results of a typical standard run with optical density reading at 450 nm.