

ARG81488 Human MMP12 ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81488-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81488-002	Standard	2 X 10 ng/vial	4°C
ARG81488-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81488-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81488-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81488-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81488-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81488-008	25X Wash buffer	20 ml	4°C
ARG81488-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81488-010	STOP solution	10 ml (Ready to use)	4°C
ARG81488-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG81488 Human MMP12 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human MMP12 in serum, plasma (heparin) and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	MMP12
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	31.25 pg/ml
Sample Type	Serum, plasma (heparin) and cell culture supernatants.
Standard Range	62.5 - 4000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 5.4% Inter-Assay CV: 6.2%
Alternate Names	ME; EC 3.4.24.65; Macrophage metalloelastase; MMP-12; hME; MME; HME; Matrix metalloproteinase-12; Macrophage elastase

Application Instructions

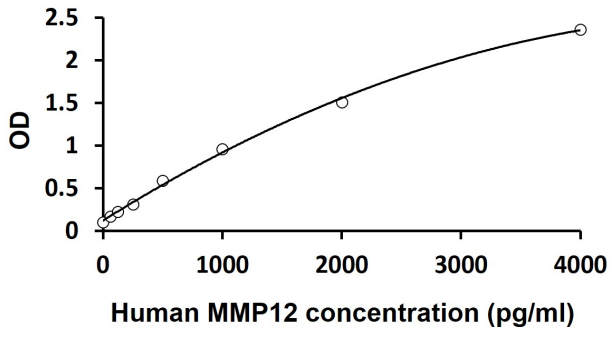
Assay Time	~ 5 hours
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Properties

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

Gene Symbol	MMP12
Gene Full Name	matrix metalloproteinase 12
Background	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. Most MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. It is thought that the protein encoded by this gene is cleaved at both ends to yield the active enzyme, but this processing has not been fully described. The enzyme degrades soluble and insoluble elastin. It may play a role in aneurysm formation and studies in mice suggest a role in the development of emphysema. The gene is part of a cluster of MMP genes which localize to chromosome 11q22.3. [provided by RefSeq, Jul 2008]
Function	May be involved in tissue injury and remodeling. Has significant elastolytic activity. Can accept large and small amino acids at the P1' site, but has a preference for leucine. Aromatic or hydrophobic residues are preferred at the P1 site, with small hydrophobic residues (preferably alanine) occupying P3. [UniProt]
Highlight	Related products: MMP12 antibodies ; MMP12 ELISA Kits ; Related news: Detecting MMPs and their non-ECM substrates New ELISA data calculation tool: Simplify the ELISA analysis by GainData



ARG81488 Human MMP12 ELISA Kit standard curve image

ARG81488 Human MMP12 ELISA Kit results of a typical standard run with optical density reading at 450 nm.