

Human Matrix Metalloproteinase 12 (MMP-12) ELISA Kit | MMP-12 elisa kit

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CATALOG #
AAA331753

REACTIVITY
Human

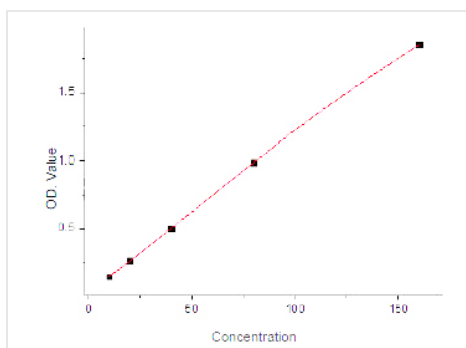
PRODUCT SYNONYMS

Matrix Metalloproteinase 12 (MMP-12); Human Matrix Metalloproteinase 12 (MMP-12) ELISA Kit; MMP12; HME; MGC138506; MME; macrophage elastase; macrophage metalloelastase; matrix metalloproteinase 12; matrix metalloproteinase 12 (macrophage elastase); MMP-12 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Sequence Length	470
Assay Type	Sandwich
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for MMP-12 elisa kit

Principle of the Assay: Human Matrix Metalloproteinase 12 (MMP-12) ELISA Kit employs a two-site sandwich ELISA to quantitate MMP-12 in samples. An antibody specific for MMP-12 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any MMP-12 present is bound by the immobilized antibody. After removing any unbound substances, HRP-Conjugated Human MMP-12 detection antibody is added to the wells. Following a wash to remove any unbound HRP reagent, a Chromogen solution is added to the wells and color develops in proportion to the amount of MMP-12 bound in the initial step. The color development is stopped and the intensity of the color is measured.

Background/Introduction: MMP-12 encodes a member of the peptidase M10 family of matrix metalloproteinases (MMPs). Proteins in this 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. The encoded preproprotein is proteolytically processed to generate the mature protease. This protease degrades soluble and insoluble elastin. MMP-12 may play a role in aneurysm formation and mutations in this gene are associated with lung function and chronic obstructive pulmonary disease (COPD). MMP-12 is part of a cluster of MMP genes on chromosome 11.

NCBI AND UNIPROT INFORMATION

NCBI GI #	73858572
NCBI GeneID	4321
NCBI Accession #	NP_002417.2
NCBI GenBank Nucleotide #	NP_002417.2
UniProt Accession #	P39900
NCBI Official Full Name	macrophage metalloelastase preproprotein
NCBI Official Synonym Full Names	matrix metalloproteinase 12
NCBI Official Symbol	MMP12
NCBI Official Synonym Symbols	ME; HME; MME; MMP-12
NCBI Protein Information	macrophage metalloelastase
UniProt Protein Name	Macrophage metalloelastase
UniProt Gene Name	MMP12
UniProt Synonym Gene Names	HME; MME; ME; hME; MMP-12
UniProt Entry Name	MMP12_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/human-elisa-kits/matrix-metalloproteinase-12-mmp-12/331753>