

Datasheet for KOA0266**Human MMP-1 ELISA Kit****Overview**

Description:	Human MMP-1 AccuSignal ELISA Kit - KOA0266
Item No.:	KOA0266
Size:	1 Kit
Applications:	ELISA
Reactivity:	Human
Range:	156 pg/ml - 10000 pg/ml

Product Details

Background:	Matrix metalloproteinase-1(MMP-1) is also known as collagenase. Matrix metalloproteinases (MMPs) are zinc-dependent proteases that degrade extracellular matrix proteins. The MMPs comprise a family of at least 20 proteolytic enzymes that play an essential role in tissue remodeling. Matrix metalloproteinase-1(MMP-1) plays an important role in the degradation of collagen in inflammatory diseases. MMP1(interstitial collagenase), MMP9(gelatinase B) and MMP12(macrophage elastase) are thought to be important in the development of emphysema. Smoking-induced MMP-1 might be important in the skin-ageing effects of tobacco smoking. The standard product used in this kit is human MMP-1 with the molecular mass of 51-53KDa. The detected MMP-1 includes zymogen and active enzyme.
Synonyms:	27 kDa interstitial collagenase, CLG, CLGN, Fibroblast collagenase, Interstitial collagenase, Matrix metalloproteinase 1 (interstitial collagenase), Matrix Metalloproteinase 1, Matrix metalloproteinase-1, MMP 1, MMP-1, MMP1, MMP1_HUMAN
Detection Kit Type:	ELISA Kit
Detection Range:	156 pg/ml - 10000 pg/ml
Sensitivity:	<10 pg/ml

Target Details

Gene Name:	MMP1
Reactivity:	Human
Immunogen:	Expression system for standard: NSO; Immunogen sequence: F20-N469

Purity/Specificity: Natural and recombinant human total MMP-1. There is no detectable cross-reactivity with other relevant proteins.

Relevant Links:

- [UniProtKB - B4DN15](#)
- [NCBI - NP_001139410.1](#)
- [GeneID - 4312](#)
- [KOA0266 Protocol](#)

Application Details

Tested Applications: ELISA

Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 10000pg/ml, 5000pg/ml, 2500pg/ml, 1250pg/ml, 625pg/ml, 312pg/ml, 156pg/ml human MMP-1 standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of human cell culture supernates, serum or plasma (heparin) to each empty well. It is recommended that each human MMP-1 standard solution and each sample be measured in duplicate.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

Formulation

Anticoagulant: Heparin Sodium

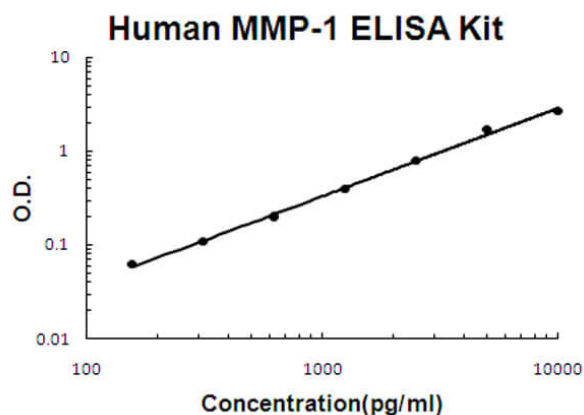
Shipping & Handling

Shipping Condition: Wet Ice

Storage Condition: Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.

Expiration: See kit insert for complete instructions.

Images

**ELISA**

Human MMP-1 AccuSignal ELISA Kit standard curve. Assay Range: 156pg/ml-10000pg/ml. Sensitivity: <10pg/ml.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.