

Datasheet for KOA0357**Rat TIMP-1 ELISA Kit****Overview**

Description:	Rat TIMP-1 AccuSignal ELISA Kit - KOA0357
Item No.:	KOA0357
Size:	1 Kit
Applications:	ELISA
Reactivity:	Rat
Range:	31.2 pg/ml - 2000 pg/ml

Product Details

Background:	The tissue inhibitor of metalloproteinases 1 (TIMP1) is also called erythroid-potentiating activity (EPA). The X-linked gene for human TIMP1 is expressed in some but not all inactive X-containing somatic-cell hybrids, suggesting that this gene is either prone to reactivation or variable in its inactivation. ¹ Purified EPA specifically stimulates human and murine cells of the erythroid lineage, unlike murine interleukin-3 (IL-3) which stimulates precursor cells from all haematopoietic lineages. ² TIMP1 is thought to play a regulatory role in connective tissues by forming inactive complexes with those metalloproteinases that are normally responsible for connective tissue turnover. The human gene encoding TIMP has been mapped to the X chromosome in the region Xp11.1-p11.4. ³ The standard product used in this kit is recombinant rat TIMP-1, consisting of 194 amino acids with the molecular mass of 21.5 kDa. As a result of glycosylation, the molecular mass is 32-34 kDa.
Synonyms:	C-C chemokine receptor type 5, CC-CKR-5, CCR5, CCR5_HUMAN, CHEMR13, CLGI, Collagenase inhibitor, EPA, EPO, Erythroid potentiating activity, Fibroblast collagenase inhibitor, HCI, HIV-1 fusion coreceptor, Human Collagenase Inhibitor, Metalloproteinase inhibitor 1, Metalloproteinase inhibitor 1 precursor, TIMP, TIMP metalloproteinase inhibitor 1, TIMP1 protein, Tissue inhibitor of metalloproteinases, Tissue inhibitor of metalloproteinase 1 erythroid potentiating activity collagenase inhibitor
Detection Kit Type:	ELISA Kit
Detection Range:	31.2 pg/ml - 2000 pg/ml
Sensitivity:	<3 pg/ml

Target Details

Gene Name:	TIMP1
Reactivity:	Rat
Immunogen:	Expression system for standard: NSO; Immunogen sequence: C24-A217
Purity/Specificity:	Natural and recombinant rat TIMP-1. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - P30120 • NCBI - NP_446271.1 • GeneID - 116510 • KOA0357 Protocol

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 2000pg/ml, 1000pg/ml, 500pg/ml, 250pg/ml, 125pg/ml, 62.5pg/ml, 31.2pg/ml rat TIMP-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 rat cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. It is recommended that each rat TIMP-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.
Other:	DOE: @ 2°-8° 03/04/2024 @-20° C 09/04/2024

Formulation

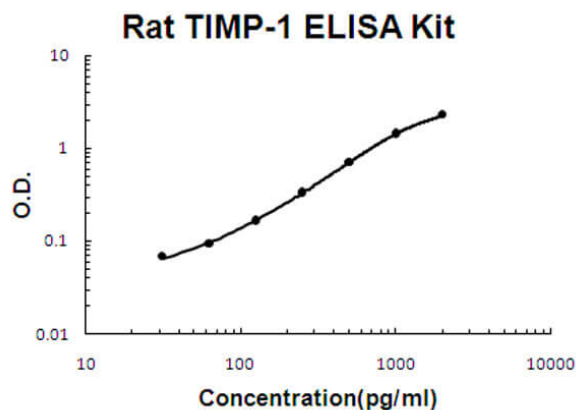
Concentration:	1 Kit
Anticoagulant:	Heparin Sodium

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

Rat TIMP-1 AccuSignal ELISA Kit standard curve. Assay Range: 31.2pg/ml-2000pg/ml. Sensitivity: <3pg/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.