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Datasheet for KOA0582

Rat Endothelin ELISA Kit

Overview

Description:	Rat Endothelin AccuSignal ELISA Kit - KOA0582
Item No.:	KOA0582
Size:	1 Kit
Applications:	ELISA
Reactivity:	Rat
Range:	3.9 pg/ml - 250 pg/ml

Product Details

Background:	The endothelins is a family of structurally and pharmacologically distinct peptides, which has been identified and sequenced in humans. Three isoforms of human endothelin have been identified: endothelin-1, -2, and -3. Endothelin-1 is a potent, 21-amino acid vasoconstrictor peptide produced by vascular endothelial cells. Endothelins are 21-amino acid vasoconstricting peptides produced primarily in the endothelium having a key role in vascular homeostasis. Endothelins are implicated in vascular diseases of several organ systems, including the heart, general circulation and brain. Endothelins are proteins that constrict blood vessels and raise blood pressure. They are normally kept in balance by other mechanisms, but when they are over-expressed, they contribute to high blood pressure(hypertension) and heart disease.
Synonyms:	Big endothelin 1, ET1, HDLCQ7, PPET1, Preproendothelin 1, EDN2, EDN2_HUMAN, Endothelin 2, Endothelin-2, ET 2, ET-2, ET2, PPET2, Preproendothelin 2, Preproendothelin-2, EDN3, EDN3_HUMAN, Endothelin-3, ET 3, ET-3, PPET3, Preproendothelin 3, Preproendothelin-3
Detection Kit Type:	ELISA Kit
Detection Range:	3.9 pg/ml - 250 pg/ml
Sensitivity:	<0.5 pg/ml

Target Details

Gene Name:	EDN1
Reactivity:	Rat
Immunogen:	Expression system for standard: ; Immunogen sequence: C53-W73

Purity/Specificity:	Natural and recombinant rat Endothelin. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - P22388 • NCBI - NP_036680.1 • GeneID - 24323 • KOA0582 Protocol

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 250pg/ml, 125pg/ml, 62.5pg/ml, 31.2pg/ml, 16.5pg/ml, 7.8pg/ml, 3.9pg/ml rat Endothelin 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 supernatants, serum or plasma(heparin, EDTA) to each empty well. We recommend that each rat Endothelin standard solution and each sample is measured in duplicate.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

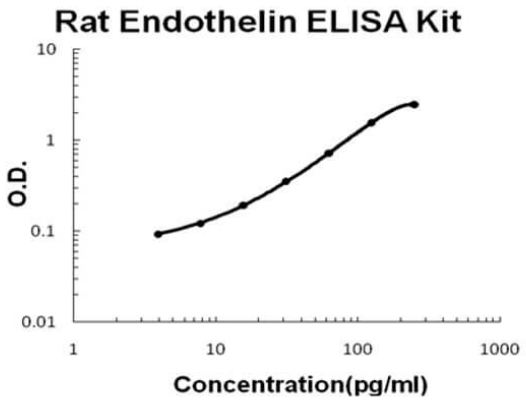
Formulation

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
Rat Endothelin AccuSignal ELISA Kit standard curve. Assay Range: 3.9pg/ml-250pg/ml. Sensitivity: <0.5pg/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.