

Mouse endothelin 1 ELISA Kit | EDN1 elisa kit

Mouse Endothelin 1, ET-1 ELISA Kit

CATALOG #
AAA80396

REACTIVITY
Mouse

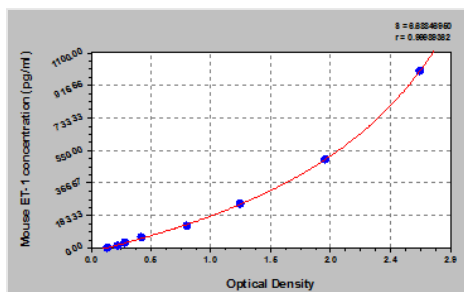
PRODUCT SYNONYMS

endothelin 1; Mouse Endothelin 1; ET-1 ELISA Kit; ET1; HDLCQ7; preproendothelin 1; EDN1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of Mouse EDN1. No significant cross-reactivity or interference between Mouse EDN1 and analogues was observed.
Sequence Length	202
Samples	Serum, plasma, cell culture supernates
Detection Range	15.6 pg/ml-1000 pg/ml
Sensitivity	3.9 pg/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV% is less than 8% Three samples of known concentration were tested twenty times on one plate to assess. Inter-assay Precision (Precision between assays): CV% is less than 10% Three samples of known concentration were tested in twenty assays to assess.
Detection Wavelength	450 nm
Sample Volume	50-100ul
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for EDN1 elisa kit

Introduction: Endothelin-1(ET-1), a peptide of 21 amino acid residues, is the most potent vasoconstrictive substance known. Originally isolated from porcine aortic endothelial cells, ET-1 is now known to be one of a family of three mammalian vasoactive peptides that also includes Endothelin-2 (ET-2) and Endothelin-3 (ET-3). These related peptides differ from ET-1 at two and six amino acid residue positions, respectively. A fourth peptide, vasoactive intestinal contractor (VIC), is sometimes classified as rat ET-2. All members of the endothelin family contain two essential disulfide bridges and six conserved amino acid residues at the C-terminus. Additionally, all of the endothelin family members are synthesized initially as prepropolypeptides of approximately 200 amino acid residues encoded by separate genes. These are proteolytically cleaved to produce biologically-inactive propolypeptides of approximately 40 amino acid residues termed "big endothelins". Big ET-1 is cleaved by the proteolytic action of a membrane-bound metalloprotease [endothelin-converting enzyme (ECE-1)] producing the 21 amino acid residue active peptide. The biochemistry and biology of the endothelins have been the subject of several reviews.

Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to ET-1. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated polyclonal antibody preparation specific for ET-1. and Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then a TMB (3,3',5, 5' tetramethyl-benzidine) substrate solution is added to each well. Only those wells that contain ET-1, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm +/- 2 nm. The concentration of ET-1. in the samples is then determined by comparing the O.D. of the samples to the standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	6753720
NCBI GeneID	13614
NCBI Accession #	NP_034234.1
NCBI GenBank Nucleotide #	NM_010104.3
UniProt Accession #	P22387 ; P70203 ; P97338
Molecular Weight	22,809 Da
NCBI Official Full Name	endothelin-1
NCBI Official Synonym Full Names	endothelin 1
NCBI Official Symbol	Edn1
NCBI Official Synonym Symbols	ET-1; preproET
NCBI Protein Information	endothelin-1; PPET1; preproendothelin; preproendothelin-1
UniProt Protein Name	Endothelin-1
UniProt Gene Name	Edn1
UniProt Synonym Gene Names	ET-1; PPET1
UniProt Entry Name	EDN1_MOUSE

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.

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Online datasheet: <https://stage.aaabiotech.com/edn1-mouse-elisa-kits/endothelin-1/80396>