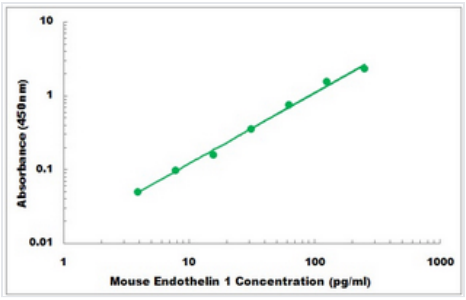
# Endothelin 1 (EDN1) ELISA Kit for Mouse

## PRODUCT OVERVIEW

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| **Product Name** | Endothelin 1 (EDN1), ELISA Kit |
| **Full Product Name** | Mouse Endothelin 1 ELISA Kit |
| **Product Gene Name** | EDN1 elisa kit |
| **Product Synonym Names** | Endothelin-1; Preproendothelin-1; PPET1 |
| **Species Reactivity** | Mouse |
| **Samples** | Cell Culture Supernatants, Serum, Plasma |
| **Sensitivity** | The minimum detectable dose of Mouse Endothelin 1 is typically less than 0.5 pg/ml. |
| **Specificity** | The Mouse Endothelin 1 ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Mouse Endothelin 1 proteins within the range of 3.9 pg/ml - 250 pg/ml. |
| **Preparation and Storage** | Shipped and store at 4 degree C for 6 months, store at -20 degree C for one year. Avoid freeze/thaw cycles. |
| **Molecular Weight** | 22,809 Da |
| **3D Structure** | ModBase 3D Structure for P22387 |
| **Applications Tested/Suitable for EDN1 elisa kit** | Sandwich ELISA (SE) |
| **Related Product Information for EDN1 elisa kit** | Principle of the assay: The Mouse Endothelin 1 ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of Mouse Endothelin 1 in Cell Culture Supernatants, Serum, Plasma. This assay employs an antibody specific for Mouse Endothelin 1 coated on a 96-well plate. Standards and samples are pipetted into the wells and Endothelin 1 present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-Mouse Endothelin 1 antibody is added. After washing away unbound biotinylated antibody, HRP-conjugated streptavidin is pipetted to the wells. The wells are again washed, a TMB substrate solution is added to the wells and color develops in proportion to the amount of Endothelin 1 bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm.<br><br>**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. |
| **Other Notes** | Small volumes of EDN1 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for EDN1 purchase** | MBS824952 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Endothelin 1 (EDN1) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing EDN1. The ELISA analytical biochemical technique of the MBS824952 kit is based on EDN1 antibody-EDN1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect EDN1 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, EDN1. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%). |




**Typical Testing Data/Standard Curve (for reference only) of EDN1 elisa kit**

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EDN1. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 6753720 |
| **NCBI GeneID** | 13614 |
| **NCBI Accession #** | NP_034234.1 |
| **UniProt Primary Accession #** | P22387 |
| **UniProt Secondary Accession #** | P70203; P97338 |
| **UniProt Related Accession #** | P22387 |
| **GenBank Nucleotide #** | NM_010104.3 |
| **NCBI Official Full Name** | endothelin-1 |
| **NCBI Official Synonym Full Names** | endothelin 1 |
| **NCBI Official Symbol** | Edn1 |
| **NCBI Official Synonym Symbols** | ET-1; preproET |
| **UniProt Protein Name** | Endothelin-1 |
| **UniProt Synonym Protein Names** | Preproendothelin-1; PPET1 |
| **Protein Family** | Endothelin |
| **UniProt Gene Name** | Edn1 |
| **UniProt Synonym Gene Names** | ET-1; PPET1 |
| **UniProt Entry Name** | EDN1_MOUSE |
| **NCBI Protein Information** | endothelin-1; PPET1; preproendothelin; preproendothelin-1 |

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| **UniProt Comments for EDN1** | EDN1: Endothelins are endothelium-derived vasoconstrictor peptides. Belongs to the endothelin/sarafotoxin family.<br><br>Protein type: Secreted, signal peptide; Secreted<br><br>Cellular Component: extracellular space; cell; cytoplasm; extracellular region; cytosol<br><br>Molecular Function: protein binding; hormone activity; endothelin B receptor binding; cytokine activity; endothelin A receptor binding; receptor binding<br><br>Biological Process: positive regulation of JNK activity; elevation of cytosolic calcium ion concentration during G-protein signaling, coupled to IP3 second messenger (phospholipase C activating); regulation of systemic arterial blood pressure by endothelin; heart development; middle ear morphogenesis; prostaglandin biosynthetic process; sensory perception of pain; positive regulation of MAP kinase activity; elevation of cytosolic calcium ion concentration; negative regulation of cAMP biosynthetic process; cell surface receptor linked signal transduction; cell-cell signaling; negative regulation of nitric-oxide synthase biosynthetic process; protein kinase C activation; cell growth; regulation of blood vessel size; rhythmic excitation; positive regulation of mitosis; positive regulation of heart rate; respiratory gaseous exchange; peptide hormone secretion; patterning of blood vessels; membrane depolarization; protein kinase C deactivation; regulation of vasoconstriction; blood vessel morphogenesis; positive regulation of transcription from RNA polymerase II promoter; superoxide release; positive regulation of odontogenesis; epithelial fluid transport; phosphoinositide 3-kinase cascade; positive regulation of cell size; neural crest cell development; G-protein signaling, phospholipase D activating pathway; positive regulation of smooth muscle cell proliferation; negative regulation of hormone secretion; negative regulation of cellular protein metabolic process; glucose transport; negative regulation of transcription from RNA polymerase II promoter; vein smooth muscle contraction; histamine secretion; nitric oxide transport; regulation of blood pressure; positive regulation of cell proliferation; regulation of pH; positive regulation of smooth muscle contraction; skeletal development; artery smooth muscle contraction; vasoconstriction; inositol phosphate-mediated signaling; in utero embryonic development; positive regulation of hormone secretion; calcium-mediated signaling; body fluid secretion; G-protein coupled receptor protein signaling pathway; dorsal/ventral pattern formation; cartilage development; positive regulation of prostaglandin secretion; response to hypoxia; regulation of sensory perception of pain; positive regulation of cell migration |
| **Research Articles on EDN1** | **1.** VEGF inhibition augments the pressor response to ET-1 |
| **Precautions** | All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines. |
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