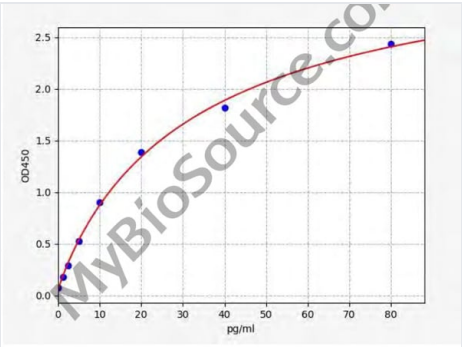
Endothelin-1 (EDN1) ELISA Kit for Mouse

PRODUCT OVERVIEW

Product Name	Endothelin-1 (Edn1), ELISA Kit
Full Product Name	Mouse Endothelin-1 ELISA Kit
Product Gene Name	Edn1 elisa kit
Product Synonym Names	ET-1 (Endothelin-1)/EDN1/ET1/HDLCQ7/PPET1/Preproendothelin-1/endothelin 1/preproendothelin-1
Species Reactivity	Mouse
Assay Type	Sandwich
Samples	Serum, plasma, tissue homogenates and other biological fluids
Detection Range	1.25-80pg/ml
Sensitivity	0.625pg/ml
Specificity	This assay has high sensitivity and excellent specificity for detection of Edn1. No significant cross-reactivity or interference between Edn1 and analogues was observed.
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C
Inter-assay Precision	CV<10%
Intra-assay Precision	CV<8%
Molecular Weight	24,425 Da
OMIM	131240
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for Edn1 elisa kit	Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Capture antibody was pre-coated onto 96-well plates. And the biotin conjugated antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and washed with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the target amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of target can be calculated.
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	MBS764007 is a ready-to-use microwell, strip 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 MBS764007 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.

NCBI GI #	269995983
NCBI GeneID	1906
NCBI Accession #	NP_001161791.1
UniProt Secondary Accession #	Q96DA1
UniProt Related Accession #	P05305
GenBank Nucleotide #	NM_001168319.1
NCBI Official Full Name	endothelin-1 isoform 2 preproprotein
NCBI Official Synonym Full Names	endothelin 1
NCBI Official Symbol	EDN1
NCBI Official Synonym Symbols	ET1; QME; PPET1; ARCND3; HDLCQ7
UniProt Protein Name	Endothelin-1
UniProt Synonym Protein Names	Preproendothelin-1; PPET1
Protein Family	Endothelin
UniProt Gene Name	EDN1
UniProt Synonym Gene Names	PPET1; ET-1
UniProt Entry Name	EDN1_HUMAN
NCBI Protein Information	endothelin-1
NCBI Summary for Edn1	This gene encodes a preproprotein that is proteolytically processed to generate a secreted peptide that belongs to the endothelin/sarafotoxin family. This peptide is a potent vasoconstrictor and its cognate receptors are therapeutic targets in the treatment of pulmonary arterial hypertension. Aberrant expression of this gene may promote tumorigenesis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2015]

UniProt Comments for Edn1	EDN1: Endothelins are endothelium-derived vasoconstrictor peptides. Belongs to the endothelin/sarafotoxin family. Protein type: Secreted, signal peptide; Secreted Chromosomal Location of Human Ortholog: 6p24.1 Cellular Component: cytoplasm; cytosol; extracellular region; extracellular space Molecular Function: cytokine activity; endothelin A receptor binding; endothelin B receptor binding; hormone activity; protein binding Biological Process: artery smooth muscle contraction; body fluid secretion; calcium-mediated signaling; cartilage development; cell growth; cell surface receptor linked signal transduction; cell-cell signaling; dorsal/ventral pattern formation; elevation of cytosolic calcium ion concentration; elevation of cytosolic calcium ion concentration during G-protein signaling, coupled to IP3 second messenger (phospholipase C activating); epithelial fluid transport; G-protein coupled receptor protein signaling pathway; G-protein signaling, phospholipase D activating pathway; glucose transport; heart development; histamine secretion; in utero embryonic development; inositol phosphate-mediated signaling; leukocyte activation; maternal process involved in parturition; membrane depolarization; middle ear morphogenesis; multicellular organismal aging; negative regulation of blood coagulation; negative regulation of cAMP biosynthetic process; negative regulation of cellular protein metabolic process; negative regulation of hormone secretion; negative regulation of nitric-oxide synthase biosynthetic process; negative regulation of transcription from RNA polymerase II promoter; neural crest cell development; neutrophil chemotaxis; nitric oxide transport; patterning of blood vessels; peptide hormone secretion; phosphoinositide 3-kinase cascade; positive regulation of cell migration; positive regulation of cell proliferation; positive regulation of cell size; positive regulation of heart rate; positive regulation of hormone secretion; positive regulation of JNK activity; positive regulation of MAP kinase activity; positive regulation of mitosis; positive regulation of nitric oxide biosynthetic process; positive regulation of odontogenesis; positive regulation of prostaglandin secretion; positive regulation of smooth muscle cell proliferation; positive regulation of smooth muscle contraction; positive regulation of transcription from RNA polymerase II promoter; prostaglandin biosynthetic process; protein kinase C activation; protein kinase C deactivation; regulation of pH; regulation of sensory perception of pain; regulation of systemic arterial blood pressure by endothelin; regulation of vasoconstriction; respiratory gaseous exchange; response to activity; response to amino acid stimulus; response to lipopolysaccharide; response to nicotine; response to ozone; response to testosterone stimulus; rhythmic excitation; sensory perception of pain; superoxide release; vasoconstriction; vein smooth muscle contraction Disease: Auriculocondylar Syndrome 3; Question Mark Ears, Isolated
Research Articles on Edn1	**1.** EDN1 expression in left internal mammary arteries depends on tissue harvesting technique.
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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