Corin (CRN) ELISA Kit for Mouse

PRODUCT OVERVIEW

Product Name	Corin (CRN), ELISA Kit
Full Product Name	Mouse Corin (CRN) ELISA Kit
Product Gene Name	CRN elisa kit
Species Reactivity	Mouse
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	116,486 Da
Chromosome Location	Chromosome: 4; NC_000004.12 (47593998..47838106, complement). Location: 4p13-p12
OMIM	605236
3D Structure	ModBase 3D Structure for Q9Y5Q5
Related Product Information for CRN elisa kit	MBS9309151 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Corin (CRN) 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 CRN. The ELISA analytical biochemical technique of the MBS9309151 kit is based on CRN antibody-CRN antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CRN antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CRN. 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(%).
Other Notes	Small volumes of CRN 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.

ADDITIONAL DETAILS

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

NCBI GI #	4884872
NCBI GeneID	10699
NCBI Accession #	AAD31850.1
UniProt Primary Accession #	Q9Y5Q5
UniProt Secondary Accession #	Q2TBD2; Q4W5E5; Q4W5G6; Q9UHY2; B0ZBE3
UniProt Related Accession #	Q9Y5Q5
NCBI Official Full Name	corin
NCBI Official Synonym Full Names	corin, serine peptidase
NCBI Official Symbol	CORIN
NCBI Official Synonym Symbols	CRN; ATC2; Lrp4; PEE5; TMPRSS10
UniProt Protein Name	Atrial natriuretic peptide-converting enzyme
UniProt Synonym Protein Names	Corin; Heart-specific serine proteinase ATC2; Pro-ANP-converting enzyme; Transmembrane protease serine 10
Protein Family	Inactive leucine-rich repeat receptor-like protein kinase

UniProt Gene Name	CORIN
UniProt Synonym Gene Names	CRN; TMPRSS10
UniProt Entry Name	CORIN_HUMAN
NCBI Protein Information	atrial natriuretic peptide-converting enzyme; pro-ANP-convertase; pro-ANP-converting enzyme; transmembrane protease serine 10; heart-specific serine proteinase ATC2
NCBI Summary for CRN	This gene encodes a member of the type II transmembrane serine protease class of the trypsin superfamily. Members of this family are composed of multiple structurally distinct domains. The encoded protein converts pro-atrial natriuretic peptide to biologically active atrial natriuretic peptide, a cardiac hormone that regulates blood volume and pressure. This protein may also function as a pro-brain-type natriuretic peptide convertase. Multiple alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2013]
UniProt Comments for CRN	CORIN: Serine-type endopeptidase involved in atrial natriuretic peptide hormone (NPPA) processing. Converts through proteolytic cleavage the non-functional propeptide NPPA into the active hormone, thereby regulating blood pressure in heart and promoting natriuresis, diuresis and vasodilation. Proteolytic cleavage of pro-NPPA also plays a role in female pregnancy by promoting trophoblast invasion and spiral artery remodeling in uterus. Also acts as a regulator of sodium reabsorption in kidney. May also process pro-NPPB the B-type natriuretic peptide. Defects in CORIN are the cause of pre-eclampsia/eclampsia 5 (PEE5); also known as gestational proteinuric hypertension. Preeclampsia is a pregnancy-associated disease with maternal symptoms but placental origin. Unlike most other human disorders, it impacts 2 individuals, the mother and her child, both of whom can be severely affected. Belongs to the peptidase S1 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Cell surface; EC 3.4.21.-; Protease Chromosomal Location of Human Ortholog: 4p12 Cellular Component: cell surface; integral to plasma membrane; plasma membrane; extracellular region; integral to membrane Molecular Function: serine-type endopeptidase activity Biological Process: regulation of blood pressure; peptide hormone processing; female pregnancy; proteolysis; regulation of systemic arterial blood pressure by atrial natriuretic peptide Disease: Preeclampsia/eclampsia 5
Research Articles on CRN	**1.** CORIN is expressed in non-pregnant late secretory phase endometrium, first trimester human implantation sites and is up-regulated with decidualization ex vivo
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