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Datasheet for ABIN6720220

Corin ELISA Kit

Overview

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| Quantity: | 1 kit |
| Target: | Corin (CORIN) |
| Reactivity: | Human |
| Method Type: | Sandwich ELISA |
| Detection Range: | 62.5 pg/mL - 4000 pg/mL |
| Minimum Detection Limit: | 62.5 pg/mL |
| Application: | ELISA |

Product Details

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| Purpose: | Sandwich ELISA for Quantitative Detection of Antigen |
| Sample Type: | Cell Culture Supernatant, Plasma (EDTA - heparin), Serum |
| Analytical Method: | Quantitative |
| Detection Method: | Colorimetric |
| Characteristics: | <p>Synonyms: activated protease fragment, ATC 2, ATC2, Atrial natriuretic peptide-converting enzyme, Atrial natriuretic peptide converting enzyme, Corin, Corin serine peptidase, CORIN_HUMAN, CRN, Heart specific serine proteinase, Heart specific serine proteinase ATC2, Heart-specific serine proteinase ATC2, Lrp 4, Lrp4, MGC119742, Pro ANP convertase, Pro ANP converting enzyme, Pro-ANP-converting enzyme, TMPRSS 10, TMPRSS10, Transmembrane protease serine 10</p> <p>Background: Atrial natriuretic peptide-converting enzyme, also called CRN or ATC2, is a protein that in humans is encoded by the CORIN gene. It is mapped to 4p12. This gene encodes a</p> |

Product Details

member of the type II transmembrane serine protease class of the trypsin superfamily. Members of this family are composed of multiple structurally distinct domains. It has been found that Corin is the pro-ANP-converting enzyme and that Corin-mediated pro-ANP activation may play a role in regulating blood pressure. What's more, Corin and ANP are essential for physiologic changes at the maternal-fetal interface. This protein may also function as a pro-brain-type natriuretic peptide convertase. Corin gene mutations which cause Corin to impair activity might be an underlying mechanism in hypertension.

Gene Name: CORIN

Production: Natural and recombinant human Corin. There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard: NSO, Immunogen sequence: S67-N1042

Target Details

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| Target: | Corin (CORIN) |
| Alternative Name: | Corin (CORIN Products) |
| Gene ID: | 10699 |
| NCBI Accession: | NP_001265514 |
| UniProt: | Q9Y5Q5 |
| Pathways: | Regulation of Systemic Arterial Blood Pressure by Hormones |

Application Details

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| Application Notes: | <p>Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 4000pg/mL, 2000pg/mL, 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL human Corin standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of human cell culture supernates, serum, plasma(heparin, EDTA) or tissue homogenates to each empty well. It is recommended that each human Corin standard solution and each sample be measured in duplicate.</p> <p>Blood Product Anticoagulant: Heparin Sodium</p> <p>ELISA Dilution: 62.5pg/mL-4000pg/mL</p> |
| Sample Volume: | 100 µL |
| Plate: | Pre-coated |

Application Details

Restrictions: For Research Use only

Handling

Storage: RT, 4 °C, -20 °C

Storage Comment: 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.