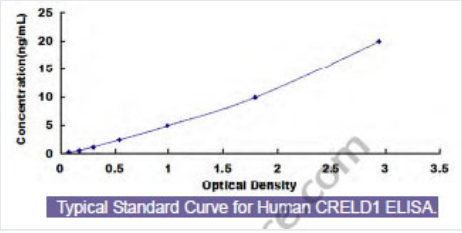
# Cysteine Rich with EGF Like Domains Protein 1 (CRELD1) ELISA Kit for Human

## PRODUCT OVERVIEW

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| **Product Name** | Cysteine Rich With EGF Like Domains Protein 1 (CRELD1), ELISA Kit |
| **Full Product Name** | Human Cysteine Rich With EGF Like Domains Protein 1 (CRELD1) ELISA Kit |
| **Product Gene Name** | CRELD1 elisa kit |
| **Product Synonym Names** | HSTF13 |
| **Species Reactivity** | Human |
| **Assay Type** | Sandwich |
| **Samples** | Tissue homogenates, cell lysates and other biological fluids. |
| **Detection Range** | 0.312-20ng/mL |
| **Sensitivity** | 0.113ng/mL |
| **Specificity** | This assay has high sensitivity and excellent specificity for detection of CRELD1. No significant cross-reactivity or interference between CRELD1 and analogues was observed. |
| **Preparation and Storage** | For unopened kit, all reagents should be kept according to the labels on vials. The TMB Substrate, Wash Buffer, Stop Solution should be stored at 4 degree C. All others should be stored at -20 degree C. |
| **Inter-assay Precision** | Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level CRELD1 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12% |
| **Intra-assay Precision** | Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level CRELD1 were tested 20 times on one plate, respectively. Intra-Assay: CV<10% |
| **Molecular Weight** | 45,942 Da |
| **OMIM** | AF452623 mRNA |
| **3D Structure** | ModBase 3D Structure for Q96HD1 |
| **ISO Certification** | Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory. |
| **Related Product Information for CRELD1 elisa kit** | Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of CRELD1 in human tissue homogenates, cell lysates and other biological fluids.<br><br>Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to CRELD1. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to CRELD1. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain CRELD1, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of CRELD1 in the samples is then determined by comparing the O.D. of the samples to the standard curve. |
| **Other Notes** | Small volumes of CRELD1 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. |

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| **Searchable Terms for CRELD1 purchase** | MBS454934 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Cysteine Rich With EGF Like Domains Protein 1 (CRELD1) 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 CRELD1. The ELISA analytical biochemical technique of the MBS454934 kit is based on CRELD1 antibody-CRELD1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CRELD1 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CRELD1. 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 CRELD1 elisa kit**

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CRELD1. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 72534728 |
| **NCBI GeneID** | 78987 |
| **NCBI Accession #** | NP_001026887.1 |
| **UniProt Primary Accession #** | Q96HD1 |
| **UniProt Secondary Accession #** | Q6I9X5; Q8NFT4; Q9Y409; A8MX90; B2RAA9 |
| **UniProt Related Accession #** | Q96HD1 |
| **GenBank Nucleotide #** | NM_001031717.3 |
| **NCBI Official Full Name** | cysteine-rich with EGF-like domain protein 1 isoform 1 |
| **NCBI Official Synonym Full Names** | cysteine rich with EGF like domains 1 |
| **NCBI Official Symbol** | CRELD1 |
| **NCBI Official Synonym Symbols** | AVSD2; CIRRIN |
| **UniProt Protein Name** | Cysteine-rich with EGF-like domain protein 1 |
| **Protein Family** | Cysteine-rich with EGF-like domain protein |
| **UniProt Gene Name** | CRELD1 |
| **UniProt Synonym Gene Names** | CIRRIN |
| **NCBI Protein Information** | cysteine-rich with EGF-like domain protein 1 |
| **NCBI Summary for CRELD1** | This gene encodes a member of a subfamily of epidermal growth factor-related proteins. The encoded protein is characterized by a cysteine-rich with epidermal growth factor-like domain. This protein may function as a cell adhesion molecule. Mutations in this gene are the cause of atrioventricular septal defect. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Apr 2010] |
| **Research Articles on CRELD1** | **1.** Germline mutations in the NKX2-5, GATA4, and CRELD1 genes do not appear to be associated with CHD in Mexican DS patients. |

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| **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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