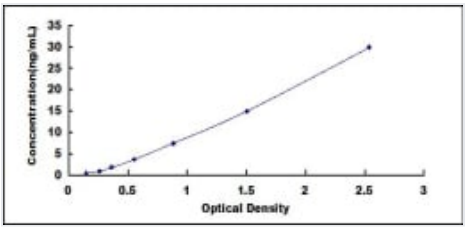
# Complement Component 9 (C9) ELISA Kit for Human

## PRODUCT OVERVIEW

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| **Product Name** | Complement Component 9 (C9), ELISA Kit |
| **Full Product Name** | Human Complement Component 9 (C9) ELISA Kit |
| **Product Gene Name** | C9 elisa kit |
| **Species Reactivity** | Human |
| **Assay Type** | Double-antibody Sandwich |
| **Samples** | Serum, Plasma and other biological fluids |
| **Detection Range** | 3.12-200ng/mL |
| **Sensitivity** | 1.38ng/mL |
| **Specificity** | This assay has high sensitivity and excellent specificity for detection of Complement Component 9 (C9).<br>No significant cross-reactivity or interference between Complement Component 9 (C9) and analogues was observed. |
| **Preparation and Storage** | The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.<br>To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end. |
| **Molecular Weight** | 2,706 Da |
| **3D Structure** | ModBase 3D Structure for Q9UGI4 |
| **Supply Chain Verification** | Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire. |
| **Application** | Enzyme-linked immunosorbent assay for Antigen Detection. |
| **Intra-assay Precision (Precision within an assay)** | 3 samples with low, middle and high level Complement Component 9 (C9) were tested 20 times on one plate, respectively. |
| **Inter-assay Precision (Precision between assays)** | 3 samples with low, middle and high level Complement Component 9 (C9) were tested on 3 different plates, 8 replicates in each plate. |
| **CV(%) =** | SD/meanX100 |
| **Intra-Assay** | CV<10% |
| **Inter-Assay** | CV<12% |
| **Product Categories/Family for C9 elisa kit** | Enzyme & Kinase; Metabolic pathway; Infection immunity; Immune molecule; Hematology |
| **ISO Certification** | Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory. |

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| **Related Product Information for C9 elisa kit** | The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Complement Component 9 (C9). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Complement Component 9 (C9). 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 Complement Component 9 (C9), 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 Complement Component 9 (C9) in the samples is then determined by comparing the O.D. of the samples to the standard curve. |
| **Other Notes** | Small volumes of C9 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 C9 purchase** | MBS2023121 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Complement Component 9 (C9) 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 C9. The ELISA analytical biochemical technique of the MBS2023121 kit is based on C9 antibody-C9 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect C9 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, C9. 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 C9 elisa kit**

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for C9. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 6706618 |
| **NCBI GeneID** | 735 |
| **NCBI Accession #** | CAB66087.1 |
| **UniProt Primary Accession #** | Q9UGI4 |
| **UniProt Related Accession #** | P02748 |
| **NCBI Official Full Name** | complement component 9, partial |
| **NCBI Official Synonym Full Names** | complement component 9 |
| **NCBI Official Symbol** | C9 |
| **NCBI Official Synonym Symbols** | C9D; ARMD15 |
| **UniProt Protein Name** | Complement component 9 |
| **UniProt Synonym Protein Names** | Complement component 9 |
| **Protein Family** | Complement component |
| **UniProt Gene Name** | C9 |
| **UniProt Entry Name** | Q9UGI4_HUMAN |
| **NCBI Protein Information** | complement component C9 |

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| **NCBI Summary for C9** | This gene encodes the final component of the complement system. It participates in the formation of the Membrane Attack Complex (MAC). The MAC assembles on bacterial membranes to form a pore, permitting disruption of bacterial membrane organization. Mutations in this gene cause component C9 deficiency. [provided by RefSeq, Feb 2009] |
| **UniProt Comments for C9** | C9: Constituent of the membrane attack complex (MAC) that plays a key role in the innate and adaptive immune response by forming pores in the plasma membrane of target cells. C9 is the pore-forming subunit of the MAC. Defects in C9 are a cause of complement component 9 deficiency (C9D). A rare defect of the complement classical pathway associated with susceptibility to severe recurrent infections, predominantly by Neisseria gonorrhoeae or Neisseria meningitidis. Belongs to the complement C6/C7/C8/C9 family.<br><br>Protein type: Extracellular matrix; Membrane protein, multi-pass; Apoptosis; Membrane protein, integral<br><br>Chromosomal Location of Human Ortholog: 5p14-p12<br><br>Cellular Component: membrane attack complex; integral to plasma membrane; cytoplasm; extracellular region; plasma membrane<br><br>Biological Process: complement activation, alternative pathway; regulation of complement activation; innate immune response; hemolysis by symbiont of host red blood cells; complement activation, classical pathway<br><br>Disease: Macular Degeneration, Age-related, 15; Complement Component 9 Deficiency |
| **Research Articles on C9** | **1.** Data indicate that complement C9 binds to the ATPase domain of mortalin. |
| **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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