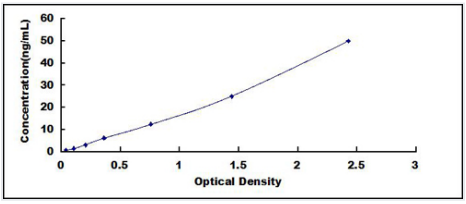
Complement Component 3a (C3A) ELISA Kit for Rabbit

PRODUCT OVERVIEW

Product Name	Complement Component 3a (C3a), ELISA Kit
Full Product Name	Rabbit Complement Component 3a (C3a) ELISA Kit
Product Gene Name	C3a elisa kit
Species Reactivity	Rabbit
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma and Other Biological Fluids
Detection Range	0.78-50ng/mL
Sensitivity	< 0.33ng/mL
Specificity	This assay has high sensitivity and excellent specificity for detection of Complement Component 3a (C3a). No significant cross-reactivity or interference between Complement Component 3a (C3a) 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. 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	53,864 Da
OMIM	U28488 mRNA
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 3a (C3a) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Complement Component 3a (C3a) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
Inter-Assay	CV<12%
ISO Certification	Manufactured in an ISO 9001:2008 and ISO 13485:2003 Certified Laboratory.
Related Product Information for C3a 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 3a (C3a). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Complement Component 3a (C3a). 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 3a (C3a), 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 3a (C3a) in the samples is then determined by comparing the O.D. of the samples to the standard curve.

Other Notes	Small volumes of C3a 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 C3a purchase	MBS2701724 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Complement Component 3a (C3a) 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 C3a. The ELISA analytical biochemical technique of the MBS2701724 kit is based on C3a antibody-C3a antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect C3a antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, C3a. 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 C3a elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for C3a. It may not necessarily be applicable to this product.

NCBI GI #	30385606
NCBI GeneID	719
NCBI Accession #	AAP23198.1
UniProt Secondary Accession #	O43771; Q92868
UniProt Related Accession #	Q16581
NCBI Official Full Name	complement component 3a receptor 1
NCBI Official Synonym Full Names	complement C3a receptor 1
NCBI Official Symbol	C3AR1
NCBI Official Synonym Symbols	AZ3B; C3AR; HNFAG09
UniProt Protein Name	C3a anaphylatoxin chemotactic receptor
UniProt Gene Name	C3AR1
UniProt Synonym Gene Names	AZ3B; C3R1; HNFAG09; C3AR; C3a-R
NCBI Protein Information	C3a anaphylatoxin chemotactic receptor
NCBI Summary for C3a	C3a is an anaphylatoxin released during activation of the complement system. The protein encoded by this gene is an orphan G protein-coupled receptor for C3a. Binding of C3a by the encoded receptor activates chemotaxis, granule enzyme release, superoxide anion production, and bacterial opsonization. [provided by RefSeq, May 2016]
UniProt Comments for C3a	Receptor for the chemotactic and inflammatory peptide anaphylatoxin C3a. This receptor stimulates chemotaxis, granule enzyme release and superoxide anion production.
Research Articles on C3a	**1.** Studies indicate that the complement response lie the active fragments, C3a and C5a, acting through their specific receptors, C3aR, C5aR1 and C5aR2 to direct the cellular response to inflammation.
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