

Monkey Complement Component 5a ELISA Kit | C5a elisa kit

Monkey Complement Component 5a ELISA Kit

CATALOG #
AAA17637

REACTIVITY
Monkey

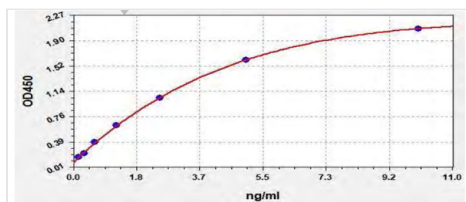
PRODUCT SYNONYMS

Complement Component 5a; Monkey Complement Component 5a ELISA Kit; C5a elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Monkey
Specificity	Specifically recognize C5a, no obvious cross reaction with other analogues
Sequence Length	350
Assay Type	Sandwich
Samples	Serum, plasma, cell culture supernatant and other biological samples
Detection Range	0.156-10ng/ml
Sensitivity	0.094ng/ml
Intra-assay Precision	Intra-assay Precision: samples with low, medium and high concentration are tested 20 times on same plate.
Inter-assay Precision	Inter-assay Precision: samples with low, medium and high concentration are tested 20 times on three different plates.
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for C5a elisa kit	Background: C5a is a small peptide molecule in the complement system, formed by the cleavage of complement C5, and has strong chemotactic activity. It is a critical regulatory molecule in inflammation and immune responses, capable of attracting various immune cells (such as neutrophils, monocytes, T cells, and macrophages) to the site of inflammation, and participating in the activation, aggregation, and mediation of immune cells and inflammatory responses. C5a promotes the chemotaxis and activation of immune cells by interacting with its specific receptor C5aR, inducing the activation of intracellular signaling pathways, ultimately resulting in various biological effects such as extracellular matrix degradation, intracellular signal transduction, cell apoptosis, and production of inflammatory mediators. In addition to its role in normal immune responses, excessive production and abnormal activation of C5a are also associated with various diseases such as autoimmune diseases, infectious diseases, cardiovascular diseases, neurological diseases, and cancer. Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti C5a antibody was pre-coated onto the 96-well plate. The biotin conjugated anti C5a antibody was used as the detection antibody. The standards and pilot samples were added to the wells subsequently. After incubation, unbound conjugates were removed by wash buffer. Then, biotinylated detection antibody was added to bind with C5a conjugated on coated antibody. After washing off unbound conjugates, HRP-Streptavidin was added. After a third washing, TMB substrates were added to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that turned yellow after adding a stop solution. Read the O.D. absorbance at 450nm in a microplate reader. The concentration of C5a in the sample was calculated by drawing a standard curve. The concentration of the target substance is proportional to the OD450 value.
---	---

NCBI AND UNIPROT INFORMATION

NCBI GI #	29169287
NCBI GeneID	728
Molecular Weight	39,336 Da
NCBI Official Full Name	complement component 5a receptor 1
NCBI Official Synonym Full Names	complement component 5a receptor 1
NCBI Official Symbol	C5AR1
NCBI Official Synonym Symbols	C5A; C5AR; C5R1; CD88
NCBI Protein Information	C5a anaphylatoxin chemotactic receptor 1
UniProt Protein Name	C5a anaphylatoxin chemotactic receptor 1
UniProt Gene Name	C5AR1
UniProt Synonym Gene Names	C5AR; C5R1; C5a-R; C5aR
UniProt Entry Name	C5AR1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.