

Human Complement Component 5a Receptor 1 (C5aR1) ELISA Kit | C5aR1 elisa kit

Human Complement Component 5a Receptor 1 (C5aR1)(Competitive ELISA) ELISA Kit

CATALOG #
AAA152521

REACTIVITY
Human

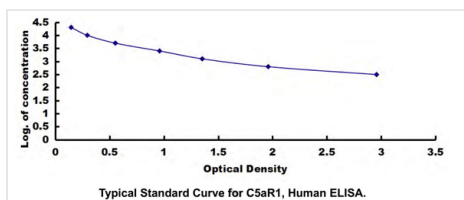
PRODUCT SYNONYMS

Complement Component 5a Receptor 1 (C5aR1); Human Complement Component 5a Receptor 1 (C5aR1)(Competitive ELISA) ELISA Kit; ELISA Kit for Complement Component 5a Receptor 1 (C5aR1); CD88; C5A; C5-AR1; C5R1; C5a anaphylatoxin chemotactic receptor 1; C5aR1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of C5aR1. No significant cross-reactivity or interference between C5aR1 and analogues was observed.
Assay Type	Quantitative Competitive
Samples	Human serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Detection Range	312-20,000pg/mL
Sensitivity	< 123pg/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level C5aR1 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level C5aR1 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	Store at 4 degree C for 1 month/-20 degree C for long-term (within shelf life) Shelf-life: one year 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.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for C5aR1 elisa kit	Principle of the Assay: This assay employs the competitive inhibition enzyme immunoassay technique. A monoclonal antibody specific to C5aR1 has been pre-coated onto a microplate. A competitive inhibition reaction is launched between biotin labeled C5aR1 and unlabeled C5aR1 (Standards or samples) with the pre-coated antibody specific to C5aR1. After incubation the unbound conjugate is washed off. Next, avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. The amount of bound HRP conjugate is reverse proportional to the concentration of C5aR1 in the sample. After addition of the substrate solution, the intensity of color developed is reverse proportional to the concentration of C5aR1 in the sample. Intended Uses: The kit is a competitive inhibition enzyme immunoassay technique for the in vitro quantitative measurement of C5aR1 in human serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4502509
NCBI GeneID	728
NCBI Accession #	NP_001727.1
NCBI GenBank Nucleotide #	NM_001736.3
UniProt Accession #	P21730
Molecular Weight	39,336 Da
NCBI Official Full Name	C5a anaphylatoxin chemotactic receptor
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; C5a-R; C5a ligand; C5a anaphylatoxin receptor; complement component 5 receptor 1
UniProt Protein Name	C5a anaphylatoxin chemotactic receptor
UniProt Gene Name	C5AR1
UniProt Synonym Gene Names	C5AR; C5R1; C5a-R; C5aR
UniProt Entry Name	C5AR_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.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/complement-component-5a-receptor-1-c5ar1/152521>