

ARG81800 Mouse Complement C5 (C5a) ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81800-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81800-002	Standard	2 X 10 ng/vial	4°C
ARG81800-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81800-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81800-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81800-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81800-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81800-008	25X Wash buffer	20 ml	4°C
ARG81800-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81800-010	STOP solution	10 ml (Ready to use)	4°C
ARG81800-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG81800 Mouse Complement C5 (C5a) ELISA Kit is an Enzyme Immunoassay kit for the quantification of Mouse Complement C5 (C5a) in serum, plasma (heparin, EDTA) and cell culture supernatants.
Tested Reactivity	Ms
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	C5a / Complement C5
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	7.8 pg/ml
Sample Type	Serum, plasma (heparin, EDTA) and cell culture supernatants.
Standard Range	15.6 - 1000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 6.6%; Inter-Assay CV: 7.9%
Alternate Names	ECLZB; CPAMD4; Complement C5; C5D; C5b; C5a; C3 and PZP-like alpha-2-macroglobulin domain-containing protein 4

Application Instructions

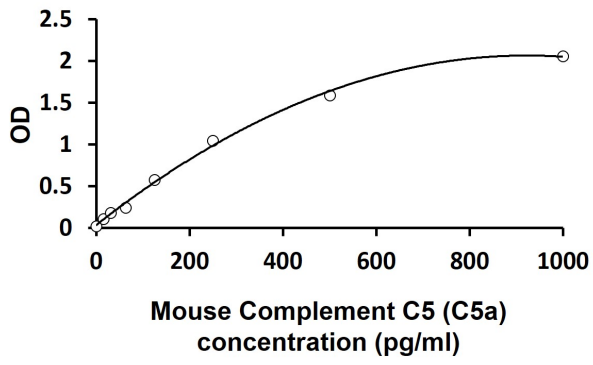
Assay Time	~ 5 hours
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Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	C5
Gene Full Name	complement component 5
Background	The protein encoded by this gene is the fifth component of complement, which plays an important role in inflammatory and cell killing processes. This protein is comprised of alpha and beta polypeptide chains that are linked by a disulfide bridge. An activation peptide, C5a, which is an anaphylatoxin that possesses potent spasmogenic and chemotactic activity, is derived from the alpha polypeptide via cleavage with a convertase. The C5b macromolecular cleavage product can form a complex with the C6 complement component, and this complex is the basis for formation of the membrane attack complex, which includes additional complement components. Mutations in this gene cause complement component 5 deficiency, a disease where patients show a propensity for severe recurrent infections. Defects in this gene have also been linked to a susceptibility to liver fibrosis and to rheumatoid arthritis. [provided by RefSeq, Jul 2008]
Function	<p>Activation of C5 by a C5 convertase initiates the spontaneous assembly of the late complement components, C5-C9, into the membrane attack complex. C5b has a transient binding site for C6. The C5b-C6 complex is the foundation upon which the lytic complex is assembled.</p> <p>Derived from proteolytic degradation of complement C5, C5 anaphylatoxin is a mediator of local inflammatory process. Binding to the receptor C5AR1 induces a variety of responses including intracellular calcium release, contraction of smooth muscle, increased vascular permeability, and histamine release from mast cells and basophilic leukocytes. C5a is also a potent chemokine which stimulates the locomotion of polymorphonuclear leukocytes and directs their migration toward sites of inflammation. [UniProt]</p>
Highlight	<p>Related products:</p> <p>Complement component antibodies; Complement component ELISA Kits; Complement component Duos / Panels;</p> <p>New ELISA data calculation tool:</p> <p>Simplify the ELISA analysis by GainData</p>



ARG81800 Mouse Complement C5 (C5a) ELISA Kit standard curve image

ARG81800 Mouse Complement C5 (C5a) ELISA Kit results of a typical standard run with optical density reading at 450 nm.