

## ARG82649 Human C5 / Complement 5 ELISA Kit

Package: 96 wells

Store at: 4°C

### Summary

Product Description	ARG82649 Human C5 / Complement 5 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human C5 / Complement 5 in serum, plasma, cell culture supernatants, saliva, milk and CSF.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	Cross-Reactivity: Monkey: 75% Mouse, Rat, Pig, Dog, Bovine and Rabbit: None  No significant cross-reactivity observed with complement C1, C2, C3, C4, C6, C7, C8, C9, factor B, factor D, factor H, factor I and factor P.
Target Name	C5 / Complement 5
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	0.084 ng/ml
Sample Type	Serum, plasma, cell culture supernatants, saliva, milk and CSF.
Standard Range	0.156 - 10 ng/ml
Sample Volume	50 µl
Precision	Intra-Assay CV: 4.8% Inter-Assay CV: 9.2%
Alternate Names	ECLZB; CPAMD4; Complement C5; C5D; C5b; C5a; C3 and PZP-like alpha-2-macroglobulin domain-containing protein 4

### Application Instructions

Assay Time	~ 4 hours
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### Properties

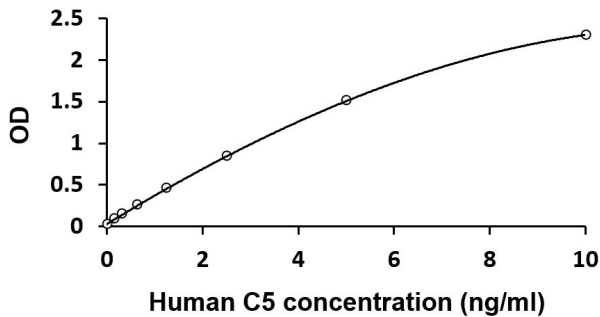
Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory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

### Bioinformation

Gene Symbol	C5
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<b>Gene Full Name</b>	complement component 5
<b>Background</b>	This gene encodes a component of the complement system, a part of the innate immune system that plays an important role in inflammation, host homeostasis, and host defense against pathogens. The encoded preproprotein is proteolytically processed to generate multiple protein products, including the C5 alpha chain, C5 beta chain, C5a anaphylatoxin and C5b. The C5 protein is comprised of the C5 alpha and beta chains, which are linked by a disulfide bridge. Cleavage of the alpha chain by a convertase enzyme results in the formation of the C5a anaphylatoxin, which possesses potent spasmogenic and chemotactic activity, and the C5b macromolecular cleavage product, a subunit of the membrane attack complex (MAC). Mutations in this gene cause complement component 5 deficiency, a disease characterized by recurrent bacterial infections. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2015]
<b>Function</b>	<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 (PubMed:8182049). C5a is also a potent chemokine which stimulates the locomotion of polymorphonuclear leukocytes and directs their migration toward sites of inflammation. [UniProt]</p>
<b>Highlight</b>	<p>Related products:</p> <p><a href="#">Complement component antibodies</a>; <a href="#">Complement component ELISA Kits</a>; <a href="#">Complement component Duos / Panels</a>;</p> <p>New ELISA data calculation tool:  <a href="#">Simplify the ELISA analysis by GainData</a></p>
<b>Cellular Localization</b>	Secreted. [UniProt]

## Images



ARG82649 Human C5 / Complement 5 ELISA Kit standard curve image

ARG82649 Human C5 / Complement 5 ELISA Kit results of a typical standard run with optical density reading at 450 nm.