Complement C3a des Arg (human), ELISA kit

The Complement C3a des Arg (human), ELISA kit is a colorimetric competitive enzyme immunoassay kit

The Complement C3a des Arg (human), EIA kit is a colorimetric competitive enzyme immunoassay kit with results in 3 hours. Absorbance is read at 405 nm. This kit comes ready-to-use with sample preparation reagents included. The Complement C3a des Arg (human), EIA kit is specific, offering low cross-reactivity to structurally related molecules, and sensitive with quantification of as little as 120 pg/mL Complement C3a des Arg.

Activation of the complement cascade is initiated by multiple pathways, including C1q binding of antigen-antibody complexes on pathogens (classical pathway), binding of serum lectin to pathogen-unique mannose residue patterns (MBL pathway), or the spontaneous hydrolysis of C3 and subsequent processing to C3 convertase (alternative pathway). C3a and C4a are two complement cleavage products of 77- and 76-amino acid residues, respectively, that are liberated into the bloodstream and processed to their more stable metabolites C3a des Arg and C4a des Arg. Although both fragments have anaphylactic properties, C3a is considered a more potent stimulator of smooth muscle cell contraction, histamine release, and inflammation than C4a. Complement activation is associated with sepsis, respiratory distress syndrome, multi-organ failure, and transplant organ rejection.

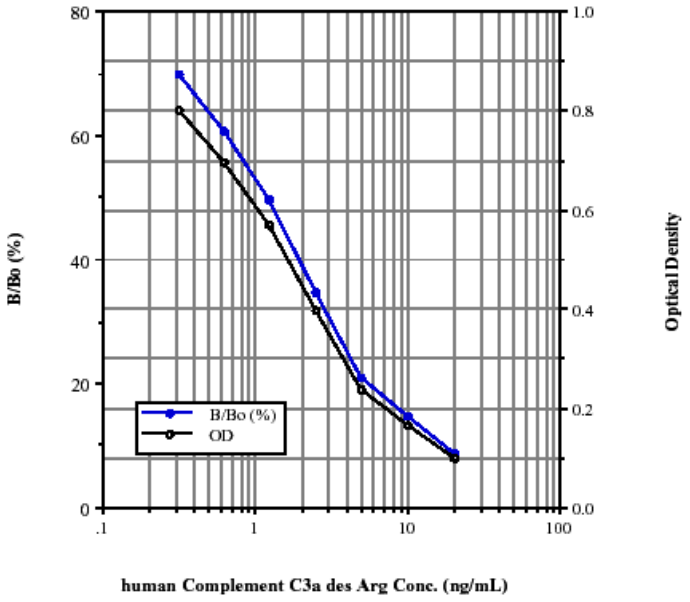
Citations: 2 View Online »

Ordering Information Order Online »

ADI-900-058	96 wells

Manuals, SDS & CofA View Online »

- Ready-to-use - sample preparation reagents provided
- Specific - low cross-reactivity to structurally related molecules
- Sensitive - detect as little as 120 pg/ml
- Higher throughput - results from up to 37 samples in duplicate in just 3 hours


B/Bo (%)
Optical Density
80
60
40
20
0
1.0
0.8
0.6
0.4
0.2
0.0
.1
1
10
100
B/Bo (%)
OD
human Complement C3a des Arg Conc. (ng/mL)

Handling & Storage

Use/Stability	Store all components at 4°C, except standard and conjugate at -20°C.
Shipping	Blue Ice

Regulatory Status

RUO - Research Use Only

Product Details

Application	Colorimetric detection, ELISA
Application Notes	For the quantitative determination of Complement C3a des arg in human EDTA plasma.
Assay Time	3 hours
Compatibility	This product is compatible with the **Absorbance 96 Plate Reader**.
Contents	GxR IgG Microtiter plate, Conjugate, Antibody, Assay buffer 10 concentrate, Wash buffer concentrate, Standard, pNpp Substrate, Stop solution, Complement reagent A, Complement reagent B
Crossreactivity	C3a des Arg (100%), C3 (1.28%), C4a des Arg (0.40%), C4 (0.31%), C5a des Arg (0.10%), C5 (0.05%)
Sensitivity	0.120 ng/ml (range 0.313 – 20 ng/ml)
Species Reactivity	Human
UniProt ID	P01024
Wavelength	405 nm

Last modified: May 29, 2024

ENZO LIFE SCIENCES, INC.
Phone: 800.942.0430
info-usa@enzolifesciences.com

European Sales Office
ENZO LIFE SCIENCES (ELS) AG
Phone: +41 61 926 8989
info-eu@enzolifesciences.com

Belgium, The Netherlands & Luxembourg
Phone: +32 3 466 0420
info-be@enzolifesciences.com

France
Phone: +33 472 440 655
info-fr@enzolifesciences.com

Germany
Phone: +49 7621 5500 526
info-de@enzolifesciences.com

UK & Ireland
Phone (UK customers): 0845 601 1488
Phone: +44 1392 825900
info-uk@enzolifesciences.com

For local distributors and detailed product information visit us online: enzo.com All product names, logos, and brands are the property of their respective owners.