

# ELISA Kit for Complement Component 3a (C3a)

Catalog No: tcue254



## Available Sizes

**Size:** 96T



## Specifications

**Research Area:**

Infection immunity; Immune molecule; Autoimmunity;

**Species Reactivity:**

Rattus norvegicus (Rat)

**Sample Type:**

serum, plasma and other biological fluids

**Sensitivity:**

The minimum detectable dose of this kit is typically less than 2.81pg/mL

**Detection Range:**

6.25-400pg/mL

**Assay Time:**

3h

**Detection Method:**

Enzyme-linked immunosorbent assay for Antigen Detection.

**Tested Application:**

ELISA

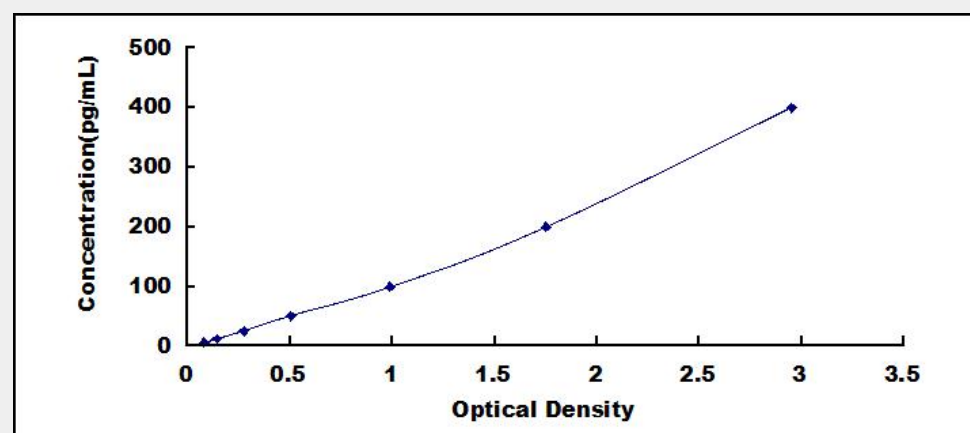
**SwissProt:**

P01026

## Test Principle

The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated

with an antibody specific to Complement Component 3a (C3a). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Complement Component 3a (C3a). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Complement Component 3a (C3a), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of  $450\text{nm} \pm 10\text{nm}$ . The concentration of Complement Component 3a (C3a) in the samples is then determined by comparing the O.D. of the samples to the standard curve.



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