

Datasheet for ABIN6720157

C5A ELISA Kit**1** Image[Go to Product page](#)

Overview

Quantity:	1 kit
Target:	C5A (C5a)
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	31.2 pg/mL - 2000 pg/mL
Minimum Detection Limit:	31.2 pg/mL
Application:	ELISA

Product Details

Purpose:	Human complement C5a Sandwich ELISA Kit for Quantitative Detection
Brand:	AccuSignal™
Sample Type:	Cell Culture Supernatant, Plasma (EDTA - heparin), Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	Production: Natural and recombinant human complement C5a. There is no detectable cross-reactivity with other relevant proteins.
Sensitivity:	< 10 pg/mL
Components:	<ul style="list-style-type: none">• Antibody-coated 96-well plate• Target Protein Standard• Detection antibody

Product Details

- Detection reagent
- Diluent buffers
- Wash buffers
- Substrate Solution
- Stop solutions
- Adhesive covers

Target Details

Target:	C5A (C5a)
Alternative Name:	complement C5a (C5a Products)
Background:	<p>Synonyms: anaphylatoxin C5a analog, C3 and PZP-like alpha-2-macroglobulin domain-containing protein 4, C5, CO5_HUMAN, complement C5, Complement C5 alpha chain, Complement component 5, CPAMD4, ECLZB</p> <p>Background: C5a is a protein fragment released from complement component C5. This gene is mapped to 9q33.2. 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 susceptibility to liver fibrosis and to rheumatoid arthritis.</p>
Gene ID:	727
NCBI Accession:	NP_001304092
UniProt:	P01031
Pathways:	Complement System , Carbohydrate Homeostasis

Application Details

Application Notes:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 2000pg/mL, 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, 31.2pg/mL human
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Application Details

complement C5a standard solutions into the pre-coated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of human cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. It is recommended that each human complement C5a standard solution and each sample be measured in duplicate.

Comment: Standard: Expression system for standard: E.coli, Immunogen sequence: T678-R751

Sample Volume: 100 μ L

Plate: Pre-coated

Restrictions: For Research Use only

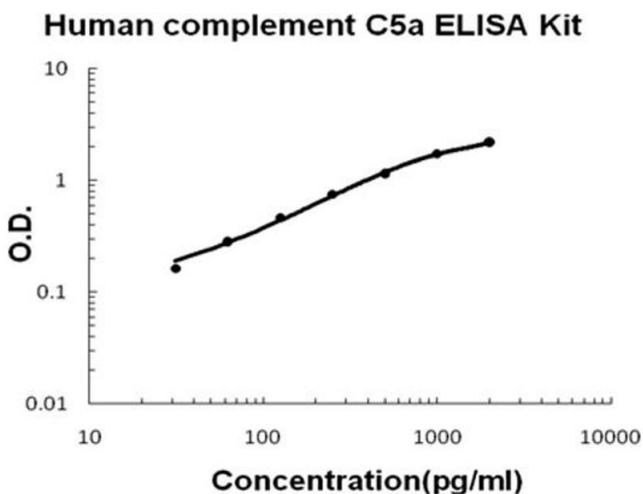
Handling

Storage: 4 $^{\circ}$ C,-20 $^{\circ}$ C

Storage Comment: Store vials at 4 $^{\circ}$ C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4 $^{\circ}$ C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20 $^{\circ}$ C or below for 12 months. Avoid cycles of freezing and thawing.

Expiry Date: 12 months

Images



ELISA

Image 1. Human complement C5a Accusignal ELISA Kit
Human complement C5a AccuSignal ELISA Kit standard curve. Assay Range: 31.2pg/ml-2000pg/ml.
Sensitivity: <10pg/ml.