

## Active Human C3 Reference Standard

Cat. No. C3-7H Lot. No. (See product label)

### SPECIFICATION

<b>Species</b>	Human
<b>Description</b>	The C3c component is central in both complement activation pathways, with different specific proteolytic systems cleaving it to form C3 convertase. Cleavage of C3 releases C3a and the C3b fragment which is part of the alternative C3 convertase. C3 levels can be low because of decreased synthesis or due to consumption. High C3 levels are seen in highly acute or chronic inflammation, hepatic cholestasis and during the third trimester of pregnancy. Unwanted complement activation is a major cause of tissue damage in various pathological conditions and contributes to quite a few immune complex diseases.
<b>Form</b>	Liquid
<b>Bio-activity</b>	The level of C3 in the serum was quantified using ELISA.
<b>Usage</b>	For research use only, not for diagnostic or therapeutic use.
<b>Quality Control Test</b>	Generated from a human serum pool. This lot has been tested by standard laboratory procedures and found to be negative for HIV 1, HIV 2, Hepatitis B and Hepatitis C.
<b>Storage</b>	Stored at -20 °C, 4 °C for less than seven days, frozen for greater than seven days.
<b>Concentration</b>	709.6 ug/ml
<b>Preservative</b>	0.1% sodium azide

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## GENE INFORMATION

<b>Gene Name</b>	C3 complement component 3 [ Homo sapiens ]
<b>Official Symbol</b>	C3
<b>Synonyms</b>	C3; complement component 3; complement C3; CPAMD1; complement component C3; acylation-stimulating protein cleavage product; C3 and PZP-like alpha-2-macroglobulin domain-containing protein 1; ASP; AHUS5; ARMD9;
<b>Gene ID</b>	718
<b>mRNA Refseq</b>	NM_000064
<b>Protein Refseq</b>	NP_000055
<b>MIM</b>	120700
<b>UniProt ID</b>	P01024
<b>Chromosome Location</b>	19p13.3-p13.2
<b>Pathway</b>	Activation of C3 and C5, organism-specific biosystem; Adaptive Immune System, organism-specific biosystem; Alternative complement activation, organism-specific biosystem; Chagas disease (American trypanosomiasis), organism-specific biosystem; Chagas disease (American trypanosomiasis), conserved biosystem; Class A/1 (Rhodopsin-like receptors), organism-specific biosystem; Complement Activation, Classical Pathway, organism-specific biosystem;
<b>Function</b>	endopeptidase inhibitor activity; protein binding; receptor binding;

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