

Active Human C3 Reference Standard

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

SPECIFICATION

Product Overview

Species	Human
Description	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.
Form	Liquid
Bio-activity	The level of C3 in the serum was quantified using ELISA.
Usage	For research use only, not for diagnostic or therapeutic use.
Quality Control Test	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.
Storage	Stored at -20 °C, 4 °C for less than seven days, frozen for greater than seven days.
Concentration	709.6 ug/ml

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Preservative 0.1% sodium azide

GENE INFORMATION

Gene Name C3 complement component 3 [Homo sapiens]

Official Symbol C3

Synonyms 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;

Gene ID 718

mRNA Refseq NM_000064

Protein Refseq NP_000055

MIM 120700

UniProt ID P01024

Chromosome Location 19p13.3-p13.2

Pathway 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;

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Function

endopeptidase inhibitor activity; protein binding; receptor binding;

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