

Native Human Complement C3c

Cat. No. C3-194H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	Human Plasma
Description	Complement C3 (C3) is the most abundant component of the complement system, with levels in human plasma of ~1.2-1.5 mg/ml. It is central to the activation of both the classical and alternative complement pathways, both of which lead to the proteolytic processing of C3 to C3a and C3b. C3 exists as a heterodimer with molecular masses of 115 kDa and 75 kDa, although it is readily processed to smaller fragments (C3a, C3b, C3c) as evidenced by the molecular weight description below. The current protocol yields C3c, however intact C3 and/or partially processed C3a/C3b may potentially be purified if certain precautions are taken during processing (ie, processing at 4°C, protease inhibitors throughout processing).
Form	Frozen
Bio-activity	Not biologically active
Molecular Mass	138000
Purity	>=95% by SDS-PAGE Reacts to C3 antisera on Western Blot Negative against C4 antisera on Western Blot

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Usage	For research use or for use in further manufacturing.
Quality Control Test	Shown to be non reactive for HBsAg, anti-HCV, anti-HBc, and negative for anti-HIV 1 & 2 by FDA approved tests.
Stability	>1 year
Storage	<= -70°C avoid light
Storage Buffer	Phosphate Buffered Saline, pH 7.4

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

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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;
Function	endopeptidase inhibitor activity; protein binding; receptor binding;

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