9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

# C3 Human

*Complement C3 Human*
*RCP0279*

## Product Overview

| | |
|---|---|
| Name | C3 Human |
| **Description** | |
| Complement C3 Human | |
| Accession (Primary) | P01024 |
| **Synonyms** | |
| Complement C3, C3 and PZP-like alpha-2-macroglobulin domain-containing protein 1, C3, CPAMD1. | |
| **Introduction** | |
| Native human C3 is a naturally glycosylated polypeptide containing two disulfide-linked chains. C3 is central to the activation of all 3 pathways of complement activation. Initiation of each pathway generates proteolytic enzyme complexes which binds the target surface. These enzymes cleave a peptide bond in C3 releasing the anaphylatoxin C3a and activating C3b. Most of the C3 activated during complement activation never attaches to the surface due to its thioester reaction with water forming fluid phase C3b which is rapidly inactivated by factors H and I forming iC3b. Surface-bound C3b is necessary in all 3 pathways for efficient activation of C5 and formation of C5b-9 complexes that lyse the target cell membrane. | |
| **Source** | |
| Human Plasma. | |
| **Physical Appearance** | |
| Sterile Filtered solution. | |
| **Formulation** | |
| C3 solution contains phosphate buffer saline. | |
| **Stability** | |
| C3 Human is stable at 4°C if entire vial will be used within 2-4 weeks. Store, frozen below -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles. | |
| **Purity** | |
| Greater than 94.0% as determined by SDS-PAGE. | |
| **Human Virus Test** | |
| Plasma from each donor has been tested and found negative for antibody to HIV-1, HIV-2, HCV, HTLV-I &II, STS and | |

9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

HBSAG.

**Precautions**

C3 Human is for research use only and not for use in diagnostic or therapeutic procedures.

## Target Information: ( P01024 )