
Product Data Sheet

Product Name: C3 Human
Cat. No.: GP26213
Batch No.: 1

Product Data

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|---------------------|---|--------------------|---------------|
| Purity | >98% | Source | Human Plasma. |
| Physical Appearance | solid | Shipping Condition | withIcePacks |
| Synonyms | Complement C3, C3 and PZP-like alpha-2-macroglobulin domain-containing protein 1, C3, CPAMD1. | | |
| Formulation | C3 solution contains phosphate buffer saline. | | |

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.

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.

Background

Human Complement C3 produced in Human plasma having a molecular mass of 185 kDa.

Caution: Product has not been fully validated for medical applications. For research use only.

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