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## Product Data Sheet

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Product Name: C3 Rat  
Cat. No.: GP26215  
Batch No.: 1

### Product Data

Purity	>98%	Source	Rat 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

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 Mouse 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

Rat Complement C3 produced in Rat plasma having a molecular weight of 187kDa.

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

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