
Product Data Sheet

Product Name: C7 Human
Cat. No.: GP26229
Batch No.: 1

Product Data

Purity	>98%	Source	Human Plasma.
Physical Appearance	solid	Shipping Condition	withIcePacks
Synonyms	Complement component C7, C7.		
Formulation	C7 protein solution contains 10mM Sodium phosphate and 145mM NaCl, pH 7.3.		

Introduction

C7 is necessary for formation of the membrane attack complex and is activated by binding at the cell membrane to recently-formed C5b,C6 complexes. Each pathway of complement activation generates proteolytic enzyme complexes which bind the target surface. These enzymes cleave a peptide bond in the larger alpha chain of C5 releasing C5a and activating C5b. Although C5b is unstable it remains bound to the activating complex for a few minutes during which it binds a single C6 from the surrounding fluid or it decays and is no longer capable of forming MAC. The C5b,6 complex may also remain connected to the C3/C5 convertase where the binding of a single C7 exposes a membrane-binding region and C5b,6,7 can enter into the bilipid layer of the target cell.

Stability

C7 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 C7 produced in Human plasma having a molecular mass of 92.4kDa.

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

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