
Product Data Sheet

Product Name: C4 Human
Cat. No.: GP26223
Batch No.: 1

Product Data

Purity	>98%	Source	Human Plasma.
Physical Appearance	solid	Shipping Condition	withIcePacks
Synonyms	Complement C4-A, Acidic complement C4, C3 and PZP-like alpha-2-macroglobulin domain-containing protein 2, C4A, CO4, CPAMD2.		
Formulation	C4 protein solution contains 10mM sodium phosphate and 145mM NaCl, pH 7.3.		

Introduction

Native human C4 is a glycosylated polypeptide containing 3 disulfide-linked chains. C4 is essential to the activation of both the lectin and the classical pathways of complement activation. Initiation of each pathway generates proteolytic enzyme complexes which are bound to the target surface. These enzymes cleave a peptide bond in C4 releasing the anaphylatoxin C4a and activating C4b. Like C3, the thioester of metastable C4b is highly reactive and is capable of reacting and covalently coupling C4b to amino or hydroxyl groups on the target surface. C4A and C4B are 2 variants of C4 that are common in man whereas, in animals who have only 1 type usually have C4B.

Stability

C4 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 C4 produced in Human plasma having a molecular mass of 205 kDa.

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

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