
Product Data Sheet

Product Name: C1S Human
Cat. No.: GP26132
Batch No.: 1

Product Data

Purity	>98%	Source	Human Plasma.
Physical Appearance	solid	Shipping Condition	withIcePacks
Synonyms	Complement C1s subcomponent, C1 esterase, Complement component 1 subcomponent s, C1S.		
Formulation	The protein contains PBS.		

Introduction

C1s enzyme (a subunit of the C1 complex) is the activated form of C1s proenzyme which is the first complement component in the classical pathway of complement. C1s proenzyme is an inactive zymogen until C1 is activated. C1 is a non-covalent calcium-dependent complex containing 1 C1q, 2 C1r and 2 C1s molecules. The binding of multiple arms to immune complexes causes the production of 2 proteases that cleave and activate the 2 C1s protease zymogens in the complex by the C1r proteins. This activation of C1s proenzyme results in its cleavage into 2 C1s chains of 58,000 and 28,000 Dalton.

Stability

Human C1s 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 C1s produced in Human plasma having a molecular mass of 86 kDa.

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

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