
Product Data Sheet

Product Name: C1R Human
Cat. No.: GP26131
Batch No.: 1

Product Data

Purity	>98%	Source	Human Plasma.
Physical Appearance	solid	Shipping Condition	withIcePacks
Synonyms	Complement C1r subcomponent, Complement component 1 subcomponent r, C1R.		
Formulation	140mM NaCl, 10mM Imidazole and 2mM EDTA, pH 7.4.		

Introduction

C1r enzyme is the activated form of C1r proenzyme which is inactive zymogen until C1 is activated. C1r is a subunit of the C1 complex which is the first complement component in the classical pathway of complement. C1 is a non-covalent calcium-dependent complex containing 1 C1q, 2 C1r and 2 C1s molecules. Each C1q binds the Fc domains of IgG or IgM by using 2 or more of its six arms. 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. The activation of C1r results from cleavage of C1r into 2 fragments of 57,000 and 35,000 Dalton.

Stability

Human C1r 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 C1r produced in Human plasma having a molecular mass of 92 kDa.

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

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