

32-13681: C1R Human

Format : 140mM NaCl, 10mM Imidazole and 2mM EDTA, pH 7.4.

Alternative Name : Complement C1r subcomponent, Complement component 1 subcomponent r, C1R.

Description

Source: Human Plasma.

Physical Appearance: Sterile Filtered solution.

Biological Activity: null

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.

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

Product Info

Amount : 100 µg / 20 µg

Purification : Greater than 90.0% as determined by SDS-PAGE.

Storage condition : 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.