COMPLEMENT C1q, HUMAN

Product No. C 0660
Store at –20 °C

Product Description
Human complement C1q is composed of six A-B dimers and three C-C dimers. C1q shows three subunits with molecular weights of 29,000, 26,000 and 22,000 after reduction with dithiothreitol. The C1q molecule is a collagen-like protein which interacts with C1r and C1s through a calcium ion to form the complement component C1. Each component has a distinct function. The binding of C1q to the Fc portion of immunoglobulin results in activating the C1r, which in turn activates the C1s to yield the fully active C1 complement. Since the isolated C1q is free from contamination by IgG, IgM and IgA, a potential use of this protein is in recognizing the circulating immune complexes in various clinical conditions.

Storage
Store lyophilized solid at –20 °C. Store at –70 °C after reconstituting with distilled water. Repeated freezing and thawing is not recommended.

Product Profile
Approx. molecular weight: 410,000
Protein: Determined by method of Lowry
Form: Lyophilized from a solution containing 0.5 M NaCl and 0.05 M Tris, pH 7.3
Purity: Single band against anti-C1q serum by immunoelectrophoresis. Single or no band against anti-whole serum. No visible reaction against anti-IgA, anti-IgM and anti-IgG serum at 20 µg of protein per gel.
Activity: Functionally active as assayed by the modified method of Kolb, et al. using C1q Deficient Serum (Product No. C8567)

References

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