

## C1QA, C1QB, C1QC

### Native Human Complement Component 1q (C1q)

<b>Catalog No.</b>	CRC162B CRC162C	<b>Quantity:</b>	1.0 mg 10 mg
<b>Alternate Names:</b>	Complement C1q		
<b>Description:</b>	Human Complement Component 1q (C1q) is a high molecular weight complex of six trimers, each consisting of an A, B, and C chain. Complement C1 is the first component in the classical complement cascade and circulates in plasma as a calcium-dependent complex of C1q, C1r, and C1s. C-terminal C1q globular domains bind to Fc regions of IgM or IgG present in immune complexes while N-terminal C1q collagen-like regions interact with the C1r2C1s2 proenzyme complex. C1q circulates in normal serum at 113 ug/ml. Patients deficient in C1q are prone to systemic lupus erythematosus (SLE) and glomerulonephritis as well as recurrent infection and skin lesions.		
<b>UniProt ID:</b>	P02745, P02746, P02747		
<b>Gene ID:</b>	712, 713, 714		
<b>Concentration:</b>	1.0 mg/ml, lot specific		
<b>Source:</b>	Human plasma		
<b>Molecular Weight:</b>	410 kDa		
<b>Formulation:</b>	Sterile-filtered 0.01M HEPES, 0.3M NaCl, pH 7.2 <b>Available containing 40% glycerol by request.</b>		
<b>Purity:</b>	≥ 95% by SDS-PAGE ≤ trace amounts of IgA, IgG, IgM, albumin, C3, C4, fibrinogen, alpha-2-macroglobulin		
<b>Extinction Coefficient:</b>	$E_{280nm}^{0.1\%} = 0.68$		
<b>Specific Activity:</b>	≥ 150,000 U/mg, a unit defined as the amount of functional C1q needed to lyse 50% of $3 \times 10^7$ antibody-sensitized sheep erythrocytes. Lot specific, typically > 500,000 U/mg.		
<b>Storage &amp; Stability:</b>	Store unopened, as supplied at -80°C for up to 1 year. <b>Thaw vial quickly in a 37°C water bath, mix, and immediately place on ice.</b> Prepare aliquots, store at -80°C. <b>&gt;10% activity loss per thaw. Avoid freeze/thaw.</b>		
<b>Infectious Disease Statement:</b>	Prepared from human serum shown by FDA approved tests to be negative for HbsAG, HCV RNA, HIV RNA, HBV DNA and negative for antibodies to HCV, HBc, HTLV I&II, HIV 1/2, WNV, Chagas, Syphilis		

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