

C1QA, C1QB, C1QC

Native Human Complement Component 1q (C1q)

Catalog No.	CRC162A CRC162B CRC162C	Quantity:	200 µg 1.0 mg 10 mg
Alternate Names:	Complement C1q		
Description:	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.		
UniProt ID:	P02745, P02746, P02747		
Gene ID:	712, 713, 714		
Concentration:	1.0 mg/ml		
Source:	Human plasma		
Molecular Weight:	410 kDa		
Formulation:	0.01M HEPES, 0.3M NaCl, pH 7.2		
Purity:	> 98% by SDS-PAGE		
Extinction Coefficient:	$E_{280\text{nm}}^{0.1\%} = 0.68$		
Specific Activity:	> 1.0×10^6 U/mg, a unit defined as the amount of functional C1q needed to lyse 50% of 3×10^7 antibody-sensitized sheep erythrocytes.		
Storage & Stability:	Upon receipt store at -20°C to -80°C for up to 1 year. Upon initial thaw, prepare aliquots of the stock solution and store at -20°C to -80°C.		
Infectious Disease Statement:	Prepared from plasma shown to be non reactive for HbsAG, HTLV-I/II, STS, and negative for anti-HCV, anti-HIV-1, and anti-HIV-2 by FDA approved tests.		

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