

## C3

### Native Human Complement C3

<b>Catalog No.</b>	CSI19500A	<b>Quantity:</b>	250 µg
<b>Alternate Names:</b>	Complement C3, Complement component 3		
<b>Description:</b>	<p>Complement C3 (C3) is the most abundant component of the complement system, with levels in human plasma of ~1.2-1.5 mg/ml. It is central to the activation of both the classical and alternative complement pathways, both of which lead to the proteolytic processing of C3 to C3a and C3b. C3 exists as a heterodimer with molecular masses of 115 kDa and 75 kDa, although it is readily processed to create C3a, C3b or C3c depending on the processed state. High C3 levels are seen in highly acute or chronic inflammation, hepatic cholestasis and during the third trimester of pregnancy.</p> <p>Unwanted complement activation is a major cause of tissue damage in various pathological conditions and contributes to immune complex diseases.</p>		
<b>UniProt ID:</b>	P01024		
<b>Source:</b>	Human serum		
<b>Molecular Weight:</b>	185 kDa, composed of disulfide linked subunits alpha subunit 110 kDa, containing C3a and C3d domains beta subunit 75 kDa		
<b>Formulation:</b>	Sterile-filtered PBS, pH 7.2		
<b>Extinction Coefficient:</b>	$E^{0.1\%}_{280nm} = 1.03$		
<b>Purity:</b>	≥ 95% by SDS-PAGE		
<b>Volume:</b>	lot specific		
<b>Concentration:</b>	1.0 mg/ml, lot specific		
<b>Biological Activity:</b>	≥ 3,000 C3H50/mg, typically 14,000 U/mg		
<b>pI:</b>	5.9		
<b>Contaminants:</b>	No detectable C5, no other active complement components Trace amounts of IgG, IgA, IgM, albumin, C4, Factor B, Factor H, Factor I, ceruloplasmin by immunochemistry.		
<b>Storage &amp; Stability:</b>	Store unopened, as supplied at -80°C for up to 1 year. Thaw vial quickly in a 37°C water bath, mix, and immediately place on ice. Prepare aliquots, store at -80°C. <b>&gt;10% activity loss per thaw. Avoid freeze/thaw.</b>		
<b>Infectious Disease Statement:</b>	Prepared from serum shown by FDA-certified tests to be negative for HBsAg, negative by anti- Hbc, HCV, HIV-1/2, Syphilis and negative by NAT for RNA from HIV-1, HCV, HBV, Zika, HTLV-1/2, WNV.		
<b>Country of Origin:</b>	USA		

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