

Native Human Complement C4b

Cat. No. Complement C4b-51H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Human Complement C4b was purified from Normal human serum (shown by certified tests to be negative for HBsAg and for antibodies to HCV, HIV-1 and HIV-II).
Species	Human
Source	Normal human serum
Description	Native human C4b is a glycosylated (~7%) polypeptide containing three disulfide-linked chains. The molecular weight predicted from the amino acid sequence is 180,500 and that observed is 195 kDa. On reduced SDS-PAGE gels C4b shows a three chain structure with an alpha prime chain (α' -chain) of 87 kDa, a beta chain of 75,000 Da and a gamma chain of 33,000 Da. Alpha prime and beta chains are linked through a single disulfide bond. The pI of C4b is approx. 7.5. Cleavage of surface-bound C4b by factor I yields the soluble C4c fragment (147 kDa) and the cell-bound C4d fragment (45 kDa). Upon cleavage of C4 (205 kDa) by C1s, C4a (77 amino acid fragment, 8,759 Da) is released from the N-terminal of the alpha chain and C4b (195 kDa) becomes attached covalently to the surface of the activator.
Form	Liquid
Extinction Coeff.	A _{280 nm} = 1.03 at 1.0 mg/mL
Purity	>90% by SDS-PAGE
Note	Use normal precautions for handling human blood products.

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 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage	At -70 centigrade or below. Avoid freeze/thaw.
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Storage Buffer	10 mM Sodium phosphate, 145 mM NaCl, pH 7.3
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Concentration	1.0 mg/mL
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GENE INFORMATION

Official Symbol	Complement C4b
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Synonyms	Complement C4b
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