Native Human C2b

Cat. No. C2b-02H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Human C2b 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	The smaller fragment of complement protein C2 is C2b that results from the activation of the classical and lectin pathways. CompTech prepares the C2b fragment from complement protein C2 which was purified from normal human serum. Initiation of classical and lectin pathway generates proteolytic enzyme complexes which are bound to the target surface (C1q/C1r/C1s in the classical pathway and MBL/Ficolin/MASPs in the lectin pathway). C1s and MASP in these complexes activate both C4 and C2. They cleave a peptide bond in C4 depositing C4b on the surface. They also cleave C2 into two fragments, the larger catalytic fragment C2a (73 kDa) binds to C4b and forms the C3/C5 convertase enzyme complex C4b,C2a and the smaller fragment C2b (34 kDa) is released in the fluid phase. The smaller C2b fragment comes from the N-terminal of C2 protein, and it contains three CCP domains which interact weakly with C4b. Although the functional role of the released C2b fragment is not clearly known, one study has suggested that the C-terminal region of the C2b fragment increases vascular permeability in humans and guinea pigs.
Form	Frozen liquid

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Molecular Mass	34 kDa (single chain)
Extinction Coeff.	A280 nm = 1.401 at 1.0 mg/ml
Purity	>95% by SDS-PAGE
Storage	At -70 centigrade or below. Avoid repeated freeze/thaw.
Storage Buffer	10 mM Sodium phosphate, 145 mM NaCl, pH 7.3
Concentration	1.0 mg/mL

GENE INFORMATION

Official Symbol	C2b

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