

## C1QB Protein, Human (sf9, His)

Cat. No.:	HY-P75464
Synonyms:	Complement C1q subcomponent subunit B; C1QB
Species:	Human
Source:	Sf9 insect cells
Accession:	P02746 (Q28-A253)
Gene ID:	713
Molecular Weight:	Approximately 30 kDa

### PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 $\mu$ m filtered solution of 50 mM Tris, 100 mM NaCl, 10% Glycerol, 0.5 mM TCEP, pH 7.5. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ $\mu$ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	C1QB protein plays a crucial role in the formation of C1, the initial component of the serum complement system. C1q associates with the proenzymes C1r and C1s, resulting in the assembly of C1. The collagen-like regions of C1q interact with the Ca(2+)-dependent C1r(2)C1s(2) proenzyme complex, and efficient activation of C1 occurs upon engagement of the globular heads of C1q with the Fc regions of IgG or IgM antibodies within immune complexes. C1, in its active form, constitutes a calcium-dependent trimolecular complex composed of C1q, C1r, and C1s in a molar ratio of 1:2:2. The C1q subcomponent consists of nine subunits, with six being disulfide-linked dimers of the A and B chains, and the remaining three forming disulfide-linked dimers of the C chain.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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