

C2/Complement C2 Protein, Human (HEK293, Fc)

Cat. No.:	HY-P74376
Synonyms:	Complement C2; C3/C5 convertase; C2
Species:	Human
Source:	HEK293
Accession:	P06681 (A21-L752)
Gene ID:	717
Molecular Weight:	110-130 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μ m filtered solution of PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ 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	C2/Complement C2 protein plays a crucial role in the classical pathway of the complement system. When activated by factor C1, C2 undergoes cleavage, resulting in the formation of two fragments: C2b and C2a. C2a, functioning as a serine protease, subsequently interacts with complement factor C4b, leading to the generation of the C3 or C5 convertase. This process is essential for the activation and amplification of the complement cascade.
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Caution: Product has not been fully validated for medical applications. For research use only.

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