

## C2/Complement C2 Protein, Cynomolgus (HEK293, His)

Cat. No.:	HY-P700697
Synonyms:	Complement C2; C3/C5 convertase; C2; ARMD14; CO2
Species:	Cynomolgus
Source:	HEK293
Accession:	XP_005553508.1 (A21-L752)
Gene ID:	102137096
Molecular Weight:	90-110 kDa

### PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 $\mu$ m filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant 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	Complement C2, a vital component of the classical pathway within the complement system, undergoes cleavage by activated factor C1 into two fragments: C2b and C2a. The generated C2a fragment, possessing serine protease activity, subsequently associates with complement factor C4b, culminating in the formation of the C3 or C5 convertase. This enzymatic complex plays a pivotal role in the activation cascade of the complement system, facilitating the downstream proteolytic cleavage of complement factors C3 and C5, which are integral steps in the immune response. The orchestrated interplay of C2 in the classical pathway underscores its significance in mediating immune defense mechanisms and maintaining immune homeostasis. (
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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