

C7/Complement component C7 Protein, Human (HEK293, Fc)

Cat. No.:	HY-P74372
Synonyms:	Complement component C7; C7
Species:	Human
Source:	HEK293
Accession:	P10643 (M1-Q843)
Gene ID:	730
Molecular Weight:	Approximately 118 kDa

PROPERTIES

Appearance	Solution
Formulation	Supplied as a 0.2 µm filtered solution of PBS, 5 % Trehalose, 8% Glycerol, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	Complement component C7 is an integral part of the membrane attack complex (MAC), a crucial effector in the innate and adaptive immune responses. The MAC plays a pivotal role by forming pores in the plasma membrane of target cells, leading to cell lysis and destruction. C7 functions as a membrane anchor in this process, and it can exist as a monomer or dimer, with the potential to form multimeric rosettes when part of the C5b-7 complex. MAC assembly begins with the proteolytic cleavage of C5 into C5a and C5b, and subsequently, C5b binds sequentially to C6, C7, C8, and multiple copies of the pore-forming subunit C9. This orchestrated sequence highlights the essential role of C7 in the assembly of MAC, contributing to the immune system's ability to eliminate target cells.
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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA