

Recombinant Human Complement C7 Protein

Catalog No.: RP03294 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	730	P10643

Tags

C-hFc

Synonyms

Complement component C7;
Complement C7; C7

Product Information

Source	Purification
HEK293 cells	> 90% by SDS-PAGE.

Calculated MW	Observed MW
118 kDa	110-120 kDa

Endotoxin

< 1.0 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, 5% Trehalose, 8% Glycerol, pH 7.4. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

Complement component 7 is a protein involved in the complement system of the innate immune system. C7 is part of the membrane attack complex (MAC) which creates a hole on pathogen surfaces, leading to cell lysis and death. Its primary task is to bind the C5bC6 complex together. This junction alters the configuration of the protein molecules, exposing a hydrophobic site on C7 that allows the C7 to insert into the phospholipid bilayer of the pathogen.

Basic Information

Description

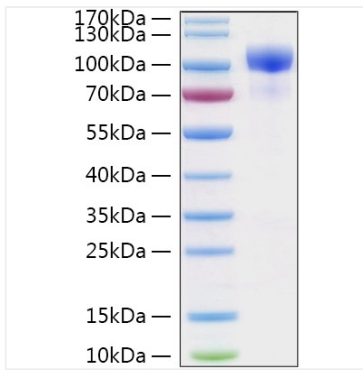
Recombinant Human Complement C7 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met1-Gln843) of human Complement C7 (Accession #P10643) fused with hFc tag at the C-terminus.

Bio-Activity

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80°C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human Complement C7 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 110-120 kDa.