

Recombinant Human Complement C7 Protein

Catalog No.: RP03294 **Recombinant**

Sequence Information

Species Human **Gene ID** 730 **Swiss Prot** P10643

Tags

C-hFc

Synonyms

Complement component C7;
Complement C7; C7

Product Information

Source

HEK293 cells

Purification

≥ 90 % as
determined by SDS-
PAGE.

Calculated MW

118 kDa

Observed MW

110-120 kDa

Endotoxin

< 1 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 freeze-thaw cycles.

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

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

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.

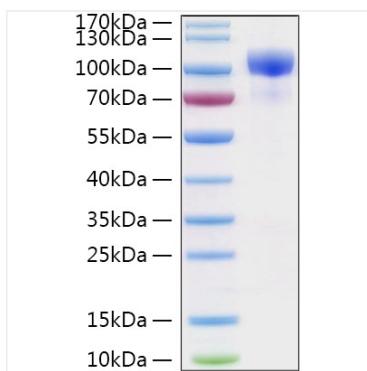
Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

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Validation Data



Recombinant Human Complement C7 Protein
was determined by SDS-PAGE under
reducing conditions with Coomassie Blue.