

Complement C8a Protein, Human, Recombinant (His)

General Information

Synonyms:	Complement component C8 alpha chain;C8A;Complement component 8 subunit alpha
Protein Construction:	31-584 aa
Species:	Human
Expression Host:	E. coli
Accession:	P07357
Molecular Weight:	65.8 kDa (predicted)
AA Sequence:	AATPAAVTCQLSNWSEWTDPCFQDKKYRHRSLQPNKFGGTICSGDIWDQASCSSTTCVRRQAQCGQDFQ CKETGRCLKRHLVCNGDQDCLDGSDEDDCEDVRAIDEDCSQYEPGPSQKAALGYNILTQEDAQSVYDASYY GGQCETVYNGEWRELRYDSTCERLYYGDDEKYFRKPYNFLKYHFEALADTGISSEFYDNANDLLSKVKKDKS DSFGVTIGIPAGSPLLVGVGVSQSQTSLNELNKYNEKKFIFTRIFTKVQTAHFKMRKDDIMLDEGMLQSLM ELPDQYNYGMYAKFINDYGYHITSYSGSMGGIYIYILVIDKAKMESLGITSRDITTCFGGSLGIQYEDKINVGGL SGDHCKKFGGKTERARKAMAVEDIISRVRGGSSGWSGLAQRSTITYRSWGRSLKYNPVIDFEMQPIHE VLRHTSLGPLEAKRQNLRRALDQYLMEFNACRCGPCFNNGVPILEGTSCRCQRLGSLGAACEQTQTEGAKA DGSWSCWSSWSVCRAIQERRRECDNPAPQNGGASCPGRKVQTQAC

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Constituent of the membrane attack complex (MAC) that plays a key role in the innate and adaptive immune response by forming pores in the plasma membrane of target cells. C8A inserts into the target membrane, but does not form pores by itself.

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