

Complement Factor D/CFD Protein, Mouse, Recombinant (His)

General Information

Synonyms:	C3 convertase activator;28 kDa adipocyte protein;Cfd;Adipsin;Properdin factor D;Df; Complement factor D;Adn
Protein Construction:	Ile26-Ser259
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	P03953
Molecular Weight:	40-49 KDa (reducing condition)
AA Sequence:	Ile26-Ser259

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:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing 20 mM Tris-HCl, 150 mM NaCl, pH 7.5.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled 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

Complement factor D, also known as adipsin, is a member of the chymotrypsin family of serine proteases, which plays an essential role in host defense as the rate-limiting enzyme in the alternative pathway of complement activation. Complement factor D activates a convertase (C3bBb) responsible for cleavage of the complement protein C3, which leads to the activation of terminal complement component C5-9 to form the membrane attack

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complex on microbial or cellular surfaces. It also functions in the regulation of systemic energy balance and physiologic and pathologic processes, including immunity and inflammation.

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