

**Catalog No.: RP03522** **Recombinant**

Species	Gene ID	Swiss Prot
Mouse	13136	O61475

## C-His

Cd55; Cd55a; Daf; Daf1; Complement decay-accelerating factor; GPI-anchored; DAF-GPI; CD55

<b>Source</b>	<b>Purification</b>
HEK293 cells	≥ 90% as determined by reducing SDS-PAGE.

## 36.63 KDa                      40-66 KDa

< 0.1 EU/μg of the protein by LAL method.

Lyophilized from 0.22µm filtered solution in PBS (pH 7.4).

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.

Recombinant Mouse CD55 Protein is a major regulator of the alternative and classical pathways of complement activation and is expressed on all serum-exposed cells. This protein recognizes C4b and C3b fragments that condense with cell-surface hydroxyl or amino groups when nascent C4b and C3b are locally generated during C4 and C3 activation. Interaction of daf with cell-associated C4b and C3b polypeptides interferes with their ability to catalyze the conversion of C2 and factor B to enzymatically active C2a and Bb and thereby prevents the formation of C4b2a and C3bBb, the amplification convertases of the complement cascade. Inhibits complement activation by destabilizing and preventing the formation of C3 and C5 convertases, which prevents complement damage.

Recombinant Mouse CD55 Protein is produced by HEK293 cells system. The target protein is expressed with sequence (Asp35-Gly362) of Mouse CD55(Accession #NP\_034146.2) fused with His tag at the C-Terminus.

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.

 | 400-999-6126

✉ | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn)

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