

Recombinant Mouse DAF/CD55 Protein

Catalog No.: RP03522 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	13136	Q61475

Tags

C-His

Synonyms

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

Product Information

Source	Purification
HEK293 cells	> 95% as determined by Bis-Tris PAGE, > 95% as determined by HPLC

Calculated MW	Observed MW
36.6 kDa	36.6 kDa

Endotoxin

< 1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Reconstitution

Background

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.

Basic Information

Description

Recombinant Mouse DAF/CD55 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Asp35-Gly362) of Mouse DAF/CD55 (Accession #NP_034146.2) fused with His tag at the C-terminus.

Bio-Activity

Storage

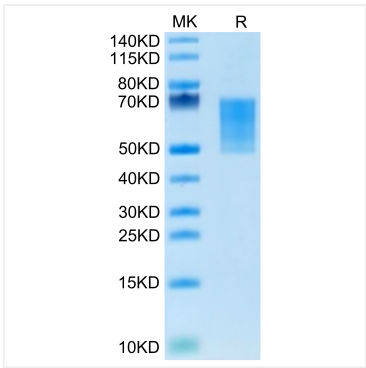
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.
Avoid repeated freeze/thaw cycles.

Contact

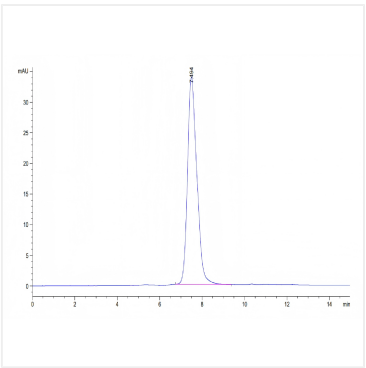
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Validation Data



Recombinant Mouse DAF/CD55 Protein was determined by Bis-Tris PAGE under reducing conditions with Coomassie Blue.



The purity of Mouse CD55 is greater than 95% as determined by SEC-HPLC.