

Recombinant Mouse CD55 Protein

Catalog No.: RP03522

Sequence Information

Species **Gene ID**
Mouse 13136

Swiss Prot **Tags**
Q61475 C-His

Synonyms

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

Product Information

Source **Purification**
HEK293 cells ≥ 90% as
determined by
reducing SDS-
PAGE.

Calculated MW **Observed MW**
36.63 KDa 40–66 KDa

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

Formulation

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

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 free-thaw cycles.

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 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.

Activity

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

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

Contact

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Validation Data

No validation data available.