

Recombinant Mouse DAF1 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51643

Size: 10ug, 100ug

Protein Name: Complement decay-accelerating factor, GPI-anchored (DAF-GPI) (CD antigen CD55)

Synonym: Cd55, Cd55a, Daf, Daf1

UniProt ID: Q61475

UniProt Link: www.uniprot.org/uniprotkb/Q61475/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 390 AA

Molecular Weight: 43 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MIRGRAPRTRPSPPPPLLPILLSLSLLLLSPTVRGDCGPPPDIPNARPILGRHSKFAEQSKVAYSCNNG
FKQVPDKSNIVVCLENGQWSSHETFCEKSCVAPERLSFASLKKEYLNMNFFPVGITVEYECRPGFRK
QPPLPGKATCLEDLVWSPVAQFCKKKSCPNPKDLNNGHINIPTGILFGSEINFSCNPGYRLVGVSTF
CSVTGNTVDWDEFPVCTEIHCPPEPKINNGIMRGESDSYTSQVVITYSCDKGFILVGNASIYCTVSK
SDVGQWSSPPPRCIEKSKVPTKKPTINVPSTGTPSTPQKPTTESVPNPGDQPTPQKPSTVKVSATQ
HVPVTKTTVRHPIRTSTDKGEPNTGGDRYIYGHTCLITLTVLHVMLSLIGYLT

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Complement decay-accelerating factor, GPI-anchored (DAF-GPI) (CD antigen CD55) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: 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.

Subcellular Localization: Cell membrane ; Lipid-anchor, GPI-anchor .

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.