

## CD55/DAF Protein, Cynomolgus, Recombinant (His)

### General Information

Synonyms:	TC;DAF-GPI;CR;CROM;Daf1;CD55;Cd55a;DAF
Protein Construction:	Asp36-Ser350
Species:	Cynomolgus
Expression Host:	HEK293 Cells
Accession:	A0A2K5X1Z6
Molecular Weight:	35.5 kDa (predicted). Due to glycosylation, the protein migrates to 65-70 kDa based on Tris-Bis PAGE result.

### QC Testing

Biological Activity:	Immobilized Cynomolgus CD55, His Tag at 2 µg/mL (100 µL/well) on the plate. Dose response curve for Anti-CD55 Antibody, hFc Tag with the EC50 of 18.3 ng/mL determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

### 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:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. 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

Decay Accelerating Factor (or CD55) is a major regulator of the alternative and classical pathways of complement activation and is expressed on all serum-exposed cells. It is commonly hijacked by invading pathogens, including many enteroviruses and uropathogenic Escherichia coli, to promote cellular attachment prior to infection.

Reference

Lea S. Interactions of CD55 with non-complement ligands. Biochem Soc Trans. 2002 Nov;30(Pt 6):1014-9. doi: 10.1042/bst0301014. PMID: 12440964.

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