

CD55/DAF recombinant protein

CD55/DAF Protein, Mouse, Recombinant (hFc Tag), HPLC-verified

CATALOG #
AAA259250

HOST
HEK293 Cells

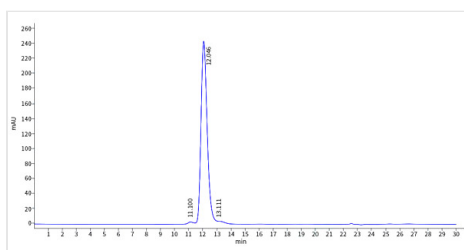
PRODUCT SYNONYMS

CD55/DAF; CD55/DAF Protein; Mouse; Recombinant (hFc Tag); HPLC-verified; CD55 molecule; decay accelerating factor for complement (Cromer blood group); Daf Protein; Daf-GPI Protein; Daf1 Protein; GPI-DAF Protein; CD55/DAF recombinant protein

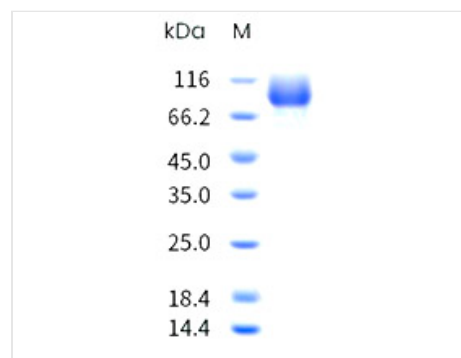
PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>= 95% as determined by SDS-PAGE. = 95% as determined by SEC-HPLC.
Form/Format	Lyophilized from sterile PBS, pH 7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Species	Mouse
Predicted N Terminal	Asp 35
Endotoxin	<1.0 EU per ug protein as determined by the LAL method.
Protein Construction	A DNA sequence encoding the Mouse CD55 (Q61475)(Met1-Thr361) was expressed with the Fc region of human IgG1 at the C-terminus.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

IMAGES



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for CD55/DAF recombinant protein	CD55, also well known as decay-accelerating factor (DAF), is a member of the RCA (regulators of complement activation) family characterized by four to 30 SCRs (short consensus repeats) in their plasma-exposed regions. It is a major regulator of the alternative and classical pathways of complement activation and is expressed on all serum-exposed cells. CD55 is physiologically acting as an inhibitor of the complement system, but is also broadly expressed in malignant tumours. DAF seems to exert different functions beyond its immunological role such as promotion of tumorigenesis, decrease of complement mediated tumor cell lysis, autocrine loops for cell rescue and evasion of apoptosis, neoangiogenesis, invasiveness, cell motility. It is commonly hijacked by invading pathogens, including many enteroviruses and uropathogenic Escherichia coli, to promote cellular attachment prior to infection. This 70-75 kDa glycoprotein CD55 containing four SCR modules is involved in the regulation of the complement cascade. It inhibits complement activation by suppressing the function of C3/C5 convertases, thereby limiting local generation or deposition of C3a/C5a and membrane attack complex (MAC or C5b-9) production. DAF has been identified as a ligand for an activation-associated, seven-transmembrane lymphocyte receptor, CD97, which is a receptor mediating attachment and infection of several viruses and bacteria. In addition, it has been shown that DAF regulates the interplay between complement and T cell immunity in vivo, and thus may be implicated in immune and tumor biology.
References	Lea S. (2002) Interactions of CD55 with non-complement ligands. Biochem Soc Trans. 30(Pt 6): 1014-9. Mikesch JH, et al. (2006) The expression and action of decay-accelerating factor (CD55) in human malignancies and cancer therapy. Cell Oncol. 28(5-6): 223-32. Wang Y, et al. (2010) Decay accelerating factor (CD55) protects neuronal cells from chemical hypoxia-induced injury. J Neuroinflammation. 7:24.

NCBI AND UNIPROT INFORMATION

NCBI GI #	114326522
NCBI GeneID	13136
NCBI Accession #	NP_034146.2
NCBI GenBank Nucleotide #	NM_010016.3
UniProt Accession #	Q61475; P97732; Q3TU32; Q4FJS4; Q61397; Q76N72; Q921P0; Q9R1C1
Molecular Weight	42,618 Da
NCBI Official Full Name	complement decay-accelerating factor, GPI-anchored preproprotein
NCBI Official Synonym Full Names	CD55 molecule, decay accelerating factor for complement
NCBI Official Symbol	Cd55
NCBI Official Synonym Symbols	Daf; Daf1; Daf-GPI; GPI-DAF
NCBI Protein Information	complement decay-accelerating factor, GPI-anchored
UniProt Protein Name	Complement decay-accelerating factor, GPI-anchored
UniProt Gene Name	Cd55
UniProt Synonym Gene Names	Cd55a; Daf; Daf1; DAF-GPI

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/cd55-recombinant-protein-hek293/259250>