

## CD55/DAF Protein, Rat (HEK293, Fc)

<b>Cat. No.:</b>	HY-P76241
<b>Synonyms:</b>	Complement Decay-Accelerating factor; CD55; CR; DAF
<b>Species:</b>	Rat
<b>Source:</b>	HEK293
<b>Accession:</b>	Q9Z0M0 (M1-S371)
<b>Gene ID:</b>	64036
<b>Molecular Weight:</b>	Approximately 75-95 kDa due to the glycosylation.

### PROPERTIES

#### AA Sequence

D C G P P P D I P N	A T P N S G K H T K	F A H Q S Q V T Y S	C N K G F K Q I P D
K P N T V V C L E N	D Q W S N Y E T F C	N K T C S A P L R L	N Y A S L K K E Y R
N M N F F P I G T T	V E F E C R P G F Q	K V T S R T G K S T	C L E E L V W S P V
V E F C K K R A C P	N P R E L K N G H I	N I P T D I L F G S	E I I F S C D K G Y
K L V G V T S T F C	S I T G N A V D W D	D V F P V C T T I F	C P D P P K I N N G
R I R E E S D S Y A	Y R Q S V T Y S C D	Q G F I L V G N S S	V H C T L N G E V G
E W S S A P P K C I	E R H K V P T K T P	P E V D I P S T M P	H E S T L I N F P S
T R A P L S H K P T	T V K V P G T R V K	P T S H K P T E V K	V P A T Q H V P V S
K T T V R H P T R T	S K D R G E S		

**Biological Activity** Immobilized Rat CD55 at 2 µg/mL (100 µL/well) can bind CD55 antibody. The ED<sub>50</sub> for this effect is 1.221 µg/mL.

**Appearance** Lyophilized powder.

**Formulation** Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

**Endotoxin Level** <1 EU/µg, determined by LAL method.

**Reconstitution** It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH<sub>2</sub>O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).

**Storage & Stability** Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

**Shipping** Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

**Background** CD55, also known as Decay Accelerating Factor (DAF), exhibits a unique characteristic as it lacks conserved residue(s)

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essential for the propagation of feature annotation. This distinctive quality prompts further exploration into the structural and functional implications of CD55, emphasizing potential nuances in its molecular interactions and regulatory mechanisms. The absence of these conserved residues underscores the particularities of CD55 and suggests intriguing avenues for research to unravel its specific roles in immune regulation and complement system modulation.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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