

Recombinant Human CD55, His-tagged

Cat. No. CD55-26634TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment: LPPDVPNAQP ALEGRTSFPE DTVITYKCEE SFVKIPGEKD SVICLKGSQW SDIEEFCNR, corresponding to amino acids 38-96 of Human CD55 fused to a His tag at N-terminal end, 11kDa.
Species	Human
Source	E.coli
ProteinLength	38-96 a.a.
Description	This gene encodes a protein involved in the regulation of the complement cascade. The encoded glycoprotein is also known as the decay-accelerating factor (DAF); binding of DAF to complement proteins accelerates their decay, disrupting the cascade and preventing damage to host cells. Antigens present on the DAF glycoprotein constitute the Cromer blood group system (CROM). Two alternatively spliced transcripts encoding different proteins have been identified. The predominant transcript encodes a membrane-bound protein expressed on cells exposed to plasma component proteins but an alternatively spliced transcript produces a soluble protein present at much lower levels. Additional, alternatively spliced transcript variants have been described, but their biological validity has not been determined.
Conjugation	HIS
Tissue specificity	Expressed on the plasma membranes of all cell types that are in intimate contact with plasma complement proteins. It is also found on the surfaces of epithelial cells lining

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	extracellular compartments, and variants of the molecule are present in body fluid
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None Constituents: PBS
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Sequences of amino acids	LPPDVPNAQPALEGRTSFPEDTVITYKCEESFVKIPGEKDSVICLKGSQWSDIEEFCN R
Sequence Similarities	Belongs to the receptors of complement activation (RCA) family. Contains 4 Sushi (CCP/SCR) domains.

GENE INFORMATION

Gene Name	CD55 CD55 molecule, decay accelerating factor for complement (Cromer blood group) [Homo sapiens]
Official Symbol	CD55
Synonyms	CD55; CD55 molecule, decay accelerating factor for complement (Cromer blood group); DAF, decay accelerating factor for complement (CD55, Cromer blood group system); complement decay-accelerating factor; CR; CROM; TC;
Gene ID	1604
mRNA Refseq	NM_000574

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Protein Refseq	NP_000565
MIM	125240
Uniprot ID	P08174
Chromosome Location	1q32
Pathway	Class B/2 (Secretin family receptors), organism-specific biosystem; Complement Activation, Classical Pathway, organism-specific biosystem; Complement and coagulation cascades, organism-specific biosystem; Complement and coagulation cascades, conserved biosystem; GPCR ligand binding, organism-specific biosystem;
Function	receptor activity;

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