

Recombinant human CD55/DAF protein

Catalog Number: ATGP3730

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

35-353aa

UniProt No.

P08174

NCBI Accession No.

NP_000565

Alternative Names

Complement decay-accelerating factor isoform 1, CD55, CHAPLE, CR, CROM, DAF, TC

PRODUCT SPECIFICATION

Molecular Weight

36 kDa (328aa)

Concentration

0.5mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 95% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

CD55, also known as complement decay-accelerating factor isoform 1, is a membrane protein that attaches to cell membrane via a glycosylphosphatidylinositol (GPI) anchor. It contains four complement control protein repeats (CCPs) with a single N-linked glycan positioned between CCPs 1 and 2. It regulates the complement system on the cell surface. It is used as a receptor by some coxsackieviruses and other enteroviruses. It is broadly

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distributed among hematopoietic and non-hematopoietic cells. It is a determinant for the Cromer blood group system. It plays a role promotion of tumorigenesis, decrease of complement mediated tumor cell lysis, autocrine loops for cell rescue and evasion of apoptosis, neoangiogenesis, invasiveness, cell motility. Recombinant human CD55, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

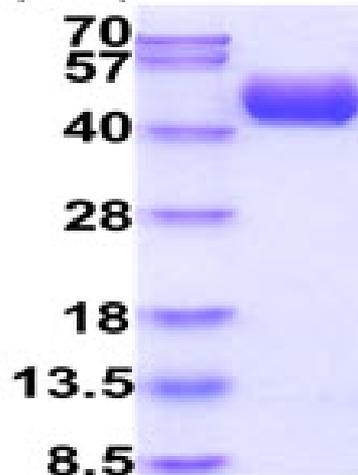
ADPDCGLPPD VPNAQPALEG RTSFPEDTVI TYKCEESFVK IPGEKDSVIC LKGSQWSDIE EFCNRSCEVP TRLNSASLKQ
PYITQNYFPV GTVVEYECRP GYRREPSLSP KLTCLQNLKW STAVEFCKKK SCPNPGEIRN QQIDVPPGIL FGATISFSCN
TGYKLFGSTS SFCLISGSSV QWSDPLPECR EIYCPAPPQI DNGIIQGERD HYGYSQSVTY ACNKGFTMIG EHSIYCTVNN
DEGEWSGPPP ECRGKSLTSK VPPTVQKPTT VNVPTTEVSP TSQKTTTKTT TPNAQATRST PVSRTTKHFH ETPPNKGSQT
TSHHHHHH

General References

Ozen A., et al. (2017) N Engl J Med. 377:52-61.
Brodbeck WG., et al. (2000) Immunology. 101:104-111.

DATA

SDS-PAGE

(kDa)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)