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 glycophosphatidylinositol (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

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

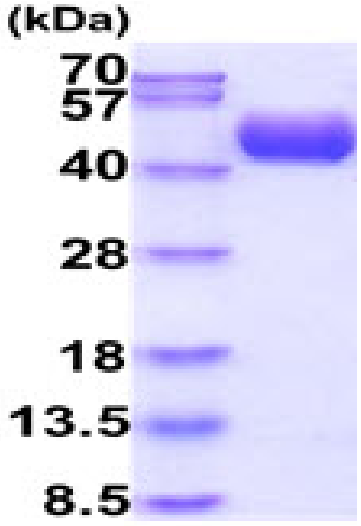
ADPDCGLPPD VPNAQPALEG RTSFPEDTVI TYKCEESFVK IPGEKDSVIC LKGSQWSDIE EFCNRSCEVP TRLNSASLKQ PYITQNYFPV GTVVEYECRP GYRREPSLSP KLTCLQNLKW STAVEFCKKK SCPNPGEIRN GQIDVPGGIL FGATISFSCN TGYKLFGSTS SFCLISGSSV QWSDPLPECR EIYCPAPPQI DNGIIQGERD HYGYRQSVTY ACNKGFTMIG EHSIYCTVNN DEGEWSGPPP ECRGKSLTSK VPPTVQKPTT VNVPTTEVSP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



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

15% SDS-PAGE (3ug)