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Recombinant human CD46 protein

Catalog Number: ATGP3451

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
35-313aa

UniProt No.
P15529

NCBI Accession No.
NP_758860

Alternative Names
Membrane cofactor protein isoform 14, CD46, AHUS2, MCP, MIC10, TLX, TRA2.10

PRODUCT SPECIFICATION

Molecular Weight
32.5 kDa (288aa)

Concentration
0.5mg/ml (determined by absorbance at 280nm)

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

Purity
> 90% 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
CD46, also known as membrane cofactor protein isoform 14, is a type 1 membrane protein that plays an important inhibitory role in the complement system. It is expressed in white blood cells, platelets, epithelial cells, and fibroblasts. The importance of CD46 to complement regulation is underscored by the observation that genetic loss of CD46 leads to development of atypical hemolytic-uremic syndrome, a disease characterized by

uncontrolled complement activation. Recombinant human CD46, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

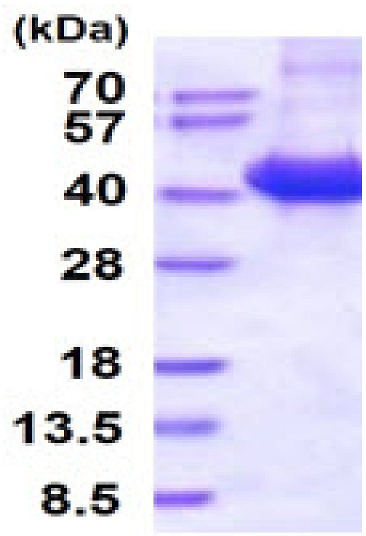
ADLCEEPPTF EAMELIGKPK PYYEIGERVD YKCKKGYFYI PPLATHTICD RNHTWLPVSD DACYRETCPY IRDPLNGQAV PANGTYEFGY QMHFICNEGY YLIGEEILYC ELKGSVAIWS GKPPICEKVL CTPPPKIKNG KHTFSEVEVF EYLDAVTYSC DPAPGPDPFS LIGESTIYCG DNSVWSRAAP ECKVVKCRFP VVENGKQISG FGKKFYYKAT VMFECDKGFY LDGSDTIVCD SNSTWDPPVP KCLKGPRPTY KPPVSNYPGY PKPEEGILDS LDHHHHHH

General References

Lublin DM., et al. (1988) J Exp Med. 168:181-194.
Maga TK., et al. (2010) Hum. Mutat. 31:E1445-14460.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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