

# Recombinant human CCM2 protein

Catalog Number: ATGP2496

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

66-353aa

### UniProt No.

Q9BSQ5

### NCBI Accession No.

NP\_001161407

### Alternative Names

Malcavernin isoform 4, Malcavernin isoform 4, Malcavernin isoform 4

## PRODUCT SPECIFICATION

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### Molecular Weight

34.3 kDa (311aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 1mM DTT

### Purity

> 90% by SDS-PAGE

### 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

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### Description

CCM2 provides instructions for making a protein called malcavernin, which strengthens the interactions between cells that form blood vessels and limits leakage from the vessels. It interacts with a number of other proteins to form a complex that is found in the junctions that connect neighboring cells. It helps turn off (suppress) a signaling molecule known as RhoA-GTPase. Recombinant human CCM2 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

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### Amino acid Sequence

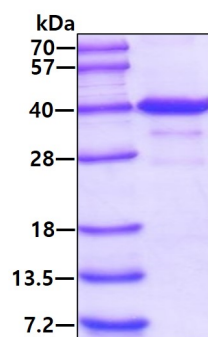
<MGSSHHHHHH SSGLVPRGSH MGS>EVKYLQ LSTIPGYLNP SSRTEILHFI DNAKRAHQLP GHILTQEHDV LSL SAYNVKL  
AWRDGED IIL RVPIHDIAAV SYVRDDAAHL VVLKTDSSST KVDIKETYEV EASTFCFPES VDVGGASPHS KTISESELSA  
SATELLQDYM LTLR TKLSSQ EIQQFAALLH EYRNGASIHE FCINLRQLYG DSRKFLLLGL RPF IPEKDSQ HFENFLETIG  
VKDGRGIITD SFGRHRRALS TTSSSTTNGN RATGSSDDRS APSEGDEWDR MISDISSDIE ALGCSMDQDS A

### General References

Dupre N. et al. (2003) Can J Neurol Sci. 30:122-128  
Liquori CL. et al. (2007) Am J Hum Genet. 80:69-75.

## DATA

### SDS-PAGE



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