Recombinant human CCM2 protein

Catalog Number: ATGP2496

PRODUCT INFORMATION

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

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

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

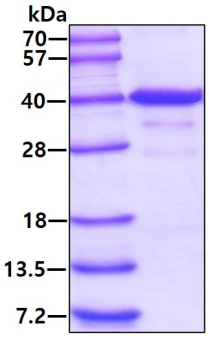
<MGSSHHHHHH SSGLVPRGSH MGS>EVKYLGQ LTSIPGYLNP SSRTEILHFI DNAKRAHQLP GHLTQEHDAV LSLSAYNVKL AWRDGEDIIL RVPIHDIAAV SYVRDDAAHL VVLKTDDSST KVDIKETYEV EASTFCFPES VDVGGASPHS KTISESELSA SATELLQDYM LTLRTKLSSQ EIQQFAALLH EYRNGASIHE FCINLRQLYG DSRKFLLLGL RPFIPEKDSQ HFENFLETIG VKDGRGIITD SFGRHRRALS TTSSSTTNGN RATGSSDDRS 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.