

## Human CCM-3, His-Tag

Synonyms: PDCD10, CCM3, TFAR15, programmed cell death 10

*PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING*

Size	Order #	Lot #	Expiry Date
20 µg	4121.950.020		
100 µg	4121.950.100		

Please enquire for bulk quantities and other vial sizes

### Description

Cerebral cavernous malformations (CCMs) are sporadically acquired or inherited vascular lesions of the central nervous system consisting of dilated thin-walled blood vessels that predispose individuals to seizures and stroke. Mutations in CCM1, CCM2, or CCM3 lead to cerebral cavernous malformations, one of the most common hereditary vascular diseases of the brain. Endothelial cells within these lesions are the main disease compartments. Here, we show that adenoviral CCM3 expression inhibits endothelial cell migration, proliferation, and tube formation while down regulation of endogenous CCM3 results in increased formation of tube-like structures. Adenoviral CCM3 expression does not induce apoptosis under normal endothelial cell culture conditions but protects endothelial cells from staurosporine-induced cell death. Tyrosine kinase activity profiling suggests that CCM3 supports PDPK-1/Akt-mediated endothelial cell quiescence and survival (Schleider et al, Neurogenetics 12, 2011). The CCM-3 is fused to a N-terminal His-tag (6x His).

- **Source** *E. Coli*
- **Purity** ≥ 95 % (SDS-PAGE, silver stained)

### Biological Activity

Testing in Progress.

### Reconstitution

The lyophilized CCM3 is soluble in water and most aqueous buffers and should be reconstituted in water or PBS.

### Amino Acid Sequence

MGSSHHHHHH SGLVPRGSM RMTMEEMKNE AETTSMVSM LYAVMYPVFN ELERVNLSAA QTLRAAFIKA  
EKENPGLTQD IIMKILEKKS VEVNFTESLL RMAADDVEEY MIERPEPEFQ DLNEKARALK QILSKIPDEI  
NDRVRFLQTI KDIASAIKEL LDTVNNVFKK YQYQNRRALE HQKKEFVKYS KFSDDLKTY FKDGKAINVF  
VSANRLIHQT NLILQTFKTV A

**Usage:** For research use only. Not for use in diagnostic or therapeutic procedures. Not for human use.

\*The Buffer may vary depending on the Lot #. Please contact our technical support if you have specific requirements.

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