
Product Data Sheet

Product Name: CCM2 Human
 Cat. No.: GP22980
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Cerebral Cavernous Malformation 2; C7orf22; malcavernin; Cerebral Cavernous Malformations 2 Protein; Chromosome 7 Open Reading Frame 22; OSM; MGC4067.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSEVKYLGQ LTSIPGYLNP SSRTEILHFI DNAKRAHQLP GHLTQEHDVLSLSAYNVKL AWRDGEDIL RVPIHDIAAV SYVRDDAAHL VVLKTDDSSST KVDIKETYEV EASTFCFPESVDVGGASPHS KTISESELSA SATELLQDYM LTLRTKLSSQ EIQQFAALLH EYRNGASIHE FCINLRQLYG DSRKFLLLGL RPFIEPKDSQHFENFLETIG VKDGRGIITD SFGRRHRALS TTSSSTTNGN RATGSSDDRS APSEGDEWDR MISDISSDIEALGCSMDQDS A		
Formulation	CCM2 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 20% glycerol and 1mM DTT.		

Introduction

Cerebral Cavernous Malformation 2, also known as CCM2 is a piece of the CCM signaling pathway which is a vital regulator of heart and vessel formation as well as integrity. CCM2 performs through the stabilization of endothelial cell junctions. In addition, CCM2 functions as a scaffold protein for MAP2K3-MAP3K3 signaling. CCM2 plays a key role in the modulation of MAP3K3-dependent p38 activation induced by hyperosmotic shock. Mutations in CCM2 result in cerebral cavernous malformations. Multiple transcript variants encoding dissimilar isoforms have been discovered for CCM2.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1%

Caution: Product has not been fully validated for medical applications. For research use only.

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HSA or BSA). Please avoid freeze thaw cycles.

Background

CCM2 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 311 amino acids (66-353 a.a) and having a molecular mass of 34.3kDa. CCM2 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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