

## Recombinant Human MICAL2 Protein (1-495 aa), His-tagged

Cat. No. MICAL2-1455H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human MICAL2 Protein (1-495 aa) is produced by Yeast expression system. This protein is fused with a 6xHis tag at the N-terminal. Research Area: Cell Biology. Protein Description: Partial.
<b>Species</b>	Human
<b>Source</b>	Yeast
<b>ProteinLength</b>	1-495 aa
<b>Description</b>	Nuclear monooxygenase that promotes depolymerization of F-actin by mediating oxidation of specific methionine residues on actin and regulates the SRF signaling. Acts by modifying nuclear actin subunits through the addition of oxygen to form methionine-sulfoxide, leading to promote actin filament severing and prevent repolymerization. Acts as a key regulator of the SRF signaling pathway elicited by nerve growth factor and serum: mediates oxidation and subsequent depolymerization of nuclear actin, leading to increase MKL1/MRTF-A presence in the nucleus and promote SRF:MKL1/MRTF-A-dependent gene transcription. Does not activate SRF:MKL1/MRTF-A through RhoA.
<b>Form</b>	Tris-based buffer,50% glycerol
<b>Molecular Mass</b>	58.5 kDa
<b>AA Sequence</b>	MGENEDEKQAQAGQVFENFVQASTCKGTLQAFNILTRHLDLDPLDHRNFYSKCLKSK

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 45-1 Ramsey Road, Shirley, NY 11967, USA

VTTWKAKALWYKLDKRGSHKEYKRGKSCTNTKCLIVGGGPCGLRTAIELAYLGAKV  
 VVVEKRDSFSRNNVLHLWPFTIHDRGLGAKKFGKFCAGSIDHISIRQLQLILFKVAL  
 MLGVEIHVNVEFVKVLEPPEDQENQKIGWRAEFLPTDHSLSSEFEFDVIIGADGRRNTL  
 EGFRRKEFRGKLAIAITANFINRNSTAEAKVEEISGVAFIFNQKFFQDLKEETGIDLENI  
 VYYKDCTHYFVMTAKKQSLLDKGVIIINDYIDTEMLLCAENVNQNLLSYAREAADFAT  
 NYQLPSLDFAMNHYGQPDVAMFDFTCMYASENAALVRERQAHQLLVALVGDSLLE  
 PFWPMGTGCARGFLAAFDTAWMVKSWNQGTPPELLAERESLYRLLPQTTPENINK  
 NFEQYTLDPGTRYPNLNSHCVRPHQVKHLYITKELEH

**Purity** > 90% as determined by SDS-PAGE.

**Notes** Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

**Storage** The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

**Concentration** A hardcopy of COA with reconstitution instruction is sent along with the products.

## GENE INFORMATION

**Gene Name** MICAL2 microtubule associated monooxygenase, calponin and LIM domain containing 2 [ Homo sapiens ]

**Official Symbol** MICAL2

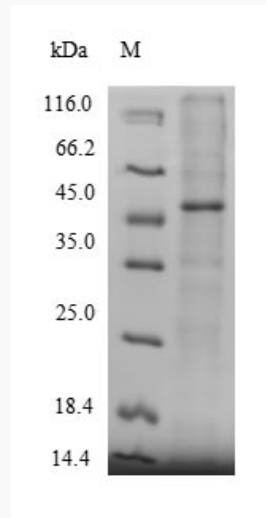
**Synonyms** MICAL2; KIAA0750; MICAL-2; MICAL2PV1; MICAL2PV2; DKFZp686H2469; DKFZp686H03148;

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Gene ID	9645
mRNA Refseq	NM_014632
Protein Refseq	NP_055447
MIM	608881
UniProt ID	O94851



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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