

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

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	Yeast
ProteinLength	1-495 aa
Description	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.
Form	Tris-based buffer,50% glycerol
Molecular Mass	58.5 kDa
AA Sequence	MGNEDEKQAQAGQVFENFVQASTCKGTLQAFNILTRHLDLDPLDHRNFYSKLKSK

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VTTWKAKALWYKLDKRGSHKEYKRGKSCTNTKCLIVGGGPCGLRTAIELAYLGAKV
 VVVEKRDSFSRNNVLHLWPFTIHDRLGLGAKKFYKFKCAGSIDHISIRQLQLILFKVAL
 MLGVEIHVNVEFVKVLEPPEDQENQKIGWRAEFLPTDHSLSSEFEFDVIIGADGRRNTL
 EGFRRKEFRGKLAIAITANFINRNSTAEAKVEEISGVAFIFNQKFFQDLKEETGIDLENI
 VYYKDCTHYFVMTAKKQSLLDKGVINDYIDTEMLLCAENVNQDNLLSYAREAADFAT
 NYQLPSLDFAMNHYGQPDVAMFDFTCMYASENAALVRERQAHQLLVALVGDSLLE
 PFWPMGTGCARGFLAAFDTAWMVKSWNQGTTPLELLAERESLYRLLPQTTPENINK
 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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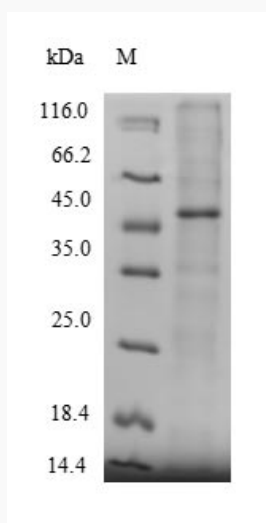
Gene ID 9645

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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