

Recombinant Full Length Human MICAL1 Protein, C-Myc/DDK-tagged

Cat. No. MICAL1-873HFL Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Full Length protein of human microtubule associated monooxygenase, calponin and LIM domain containing 1 (MICAL1) with a C-Myc/DDK tag was expressed in HEK293T.

Species Human

Source HEK293

Description This gene encodes an enzyme that oxidizes methionine residues on actin, thereby promoting depolymerization of actin filaments. This protein interacts with and regulates signalling by NEDD9/CAS-L (neural precursor cell expressed, developmentally down-regulated 9). Alternative splicing results in multiple transcript variants.

Molecular Mass 117.7 kDa

AA Sequence

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MASPTSTNPAHAHFESFLQAQLCQDVLSSFQELCGALGLEPGGGLPQYHKIKDQLN
YWSAKSLWTKLDRAGQPVYQQGRACSTKCLVVGAGPCGLRVAVELALLGARVV
LVEKRTKFSRHNVLHLWPFTIHDLRALGAKKFYGRFCTGTLDHISIRQLQLLLKVAL
LGVEIHWGVTFGLQPPRKGSGWRAQLQNPQAQLANYEFDVLISAAGGKFVPEG
FKVREMRGKLAIGITANFVNGRTVEETQVPEISGVARIYNQSFFQSLLKATGIDLENIV
YYKDDTHYFVMTAKKQCLLRGLVLRQDWPDTNRLLSANVVPEALQRFTRAAADFA
THGKLGKLEFAQDAHGQPDVSAFDFTSMMRAESSARVQEKHGARLLLGLVGDCLV
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EPFWPLGTGVARGFLAAFDAAWMVKRWAEGAESLEVLAEERESLYQLLSQTSPENM
 HRNVAQYGLDPATRYPNLNLRAVTPNQVRDLYDVLAKEPVQRNNDKTDGMPATG
 SAGTQEELLRWCQEQTAGYPGVHVSDLSSSWADGLALCALVYRLQPGLLEPSELQ
 GLGALEATAWALKVAENELGITPVVSAQAVVAGSDPLGLIAYLSHFHSAFKSMAHSP
 GPVSQASPGTSSAVLFLSKLQRTLQRSRAKENAEDAGGKKLRLEMEAETPSTEVPP
 DPEPGVPLTPPSQHQEAGAGDLCALCGEHLVLERLCVNGHFFHRSCFRCHTCEA
 TLWPGGYEQHPGDGHFYCLQHLPQTDHKAEGSDRGPESPELPTPSENSMPPGLST
 PTASQEGAGVVPDPSQPTRRQIRLSSPERQRLSSLNLTPPEMEPPPKPPRSCSAL
 ARHALESSFVGWGLPVQSPQALVAMEKEEKESPFSSSEEEEDVPLDSDVEQALQTF
 AKTSGTMNNYPTWRRTLLRRAKEEEMKRFCQAQTIQRRLEIEAALRELEAEGVKLE
 LALRRQSSSPEQQKLLWVGQLLQLVDKKNLSVAEEAELMITVQELNLEEKQWQLDQ
 ELRGYMNREENLKTAADRQAEDQVLRKLVLDLVNQRDALIRFQEERLSELALGTGA
 QGTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Notes For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Stability Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

Storage Store at -80 centigrade.

Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Full Length Full L.

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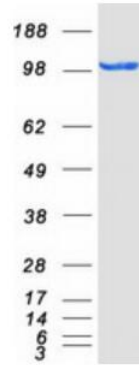
GENE INFORMATION

Gene Name	MICAL1 microtubule associated monooxygenase, calponin and LIM domain containing 1 [Homo sapiens (human)]
Official Symbol	MICAL1
Synonyms	MICAL1; microtubule associated monooxygenase, calponin and LIM domain containing 1; NEDD9 interacting protein with calponin homology and LIM domains , NICAL; protein-methionine sulfoxide oxidase MICAL1; DKFZp434B1517; FLJ11937; FLJ21739; MICAL; CasL interacting molecule; molecule interacting with CasL protein 1; NEDD9 interacting protein with calponin homology and LIM domains; NEDD9-interacting protein with calponin homology and LIM domains; NICAL; MICAL-1
Gene ID	64780
mRNA Refseq	NM_022765
Protein Refseq	NP_073602
MIM	607129
UniProt ID	Q8TDZ2

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SDS-PAGE

Coomassie blue staining of purified MICAL1 protein. The protein was produced from HEK293T cells transfected with MICAL1 cDNA clone

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