

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	MASPTSTNPAHAHFESFLQAQLCQDVLSSFQELCGALGLEPGGGGLPQYHKIKDQLN YWSAKSLWTKLDRKAGQPVYQQGRACSTKCLVVGAGPCGLRVAVELALLGARVV LVEKRTKFSRHNVLHLWPFTIHDRLALGAKKFYGRFCTGTLDHISIRQLQLLLKVAL LGVEIHWGVTFGLQPPPRKSGSWRAQLQPNPPAQLANYEFDVLISAAGGKFVPEG FKVREMRGKLAIGITANFVNGRTVEETQVPEISGVARIYNQSFFQSLLKATGIDLENIV YYKDDTHYFVMTAKKQCLLRGLGVLRQDWPDTNRLLSANVVPEALQRFTRAAADFA THGKLGKLEFAQDAHGQPDVSAFDFTSMMRAESSARVQEKHGARLLLGLVGDCLV

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EPFWPLGTGVARGFLAAFDAAWMVKRWAEGAESLEVLAERESLYQLLSQTSPENM
 HRNVAQYGLDPATRYPNLNLRAVTPNQVRDLYDVLAKEPVQRNNDKTDGMPATG
 SAGTQEELLRWCQEQTAGYPGVHVSDDLSSSWADGLALCALVYRLQPGLLEPSELQ
 GLGALEATAWALKVAENELGITPVVSAQAVVAGSDPLGLIAYLSHFHSAFKSMAHSP
 GPVSQASPGTSSAVLFLSKLQRTLQRSRAKENAEDAGGKKLRLEMEAETPSTEVP
 DPEPGVPLTPPSQHQEAGAGDLCALCGEHLVLERLCVNGHFFHRSCFRCHTCEA
 TLWPGGYEQHPGDGHFYCLQHLPQTDHKAEGSDRGPESELPTPSENSMPPGLST
 PTASQEGAGVPDPSPQPTRRQIRLSSPERQRLSSLNLTPDPEMEPPPKPPRSCSAL
 ARHALESSFVGWGLPVQSPQALVAMEKEEEKESPFSEEEEEEDVPLDSDVEQALQTF
 AKTSGTMNNYPTWRRTLLRRAKEEEMKRFCKAQTIRRLNEIEAALRELEAEGVKLE
 LALRRQSSSPEQQKKLWVGQLQLVDKKNSLVAEEAELMITVQELNLEEKQWQLDQ
 ELRGYMNREENLKTAADRQAEDQVLRKLVLDLVNQRDALIRFQEERRLSELALGTGA
 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.

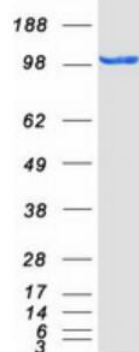
GENE INFORMATION

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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