

Recombinant Human MICAL1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MICAL1-1057H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MICAL1 MS Standard C13 and N15-labeled recombinant protein (NP_073602) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
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	117.9 kDa
AA Sequence	MASPTSTNPAHAHFESFLQAQLCQDVLSSSFQELCGALGLEPGGGLPQYHKIKDQLN YWSAKSLWTKLDRAGQPVYQQGRACSTKCLVVGAGPCGLRVAVELALLGARVV LVEKRTKFSRHNVLHLWPFTIHDRLALGAKKFYGRFCTGTLDHISIRQLQLLLKVAL LGVEIHWGVFTFTGLQPPPRKSGSWRAQLQPNPPAQLANYEFDVLISAAGGKFVPEG FKVREMRGKLAIGITANFVNGRTVEETQVPEISGVARIYNQSFQSLKATGIDLENIV YYKDDTHYFVMTAKKQCLRLGVLRQDWPDTNRLLSANVVPEALQRFTRAAADFA THGKLGKLEFAQDAHGQPDVSAFDFTSMMRAESSARVQEKHGARLLLGLVGDCLV EPFWPLGTGVARGFLAAFDAAWMVKRWAEGAESLEVLAEERESLYQLLSQTSPENM

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HRNVAQYGLDPATRYPNLNLRAVTPNQVRDLYDVLAKEPVQRNNDKTDGMPATG
SAGTQEELLRWQCQEQTAGYPGVHVSDDLSSSWADGLALCALVYRLQPGLLPESELQ
GLGALEATAWALKVAENELGITPVVSAQAVVAGSDPLGLIAYLSHFHSAFKSMAHSP
GPVSQASPGTSSAVLFLSKLQRTLQRSRAKENAEDAGGKKLRLEMEAETPSTEVPP
DPEPGVPLTPPSQHQEAGAGDLCALCGEHLVLERLCVNGHFFHRSCFRCHTCEA
TLWPGGYEQHPGDGHFYCLQHLPQTDHKAEGSDRGPESPELPTPSENSMPPGLST
PTASQEGAGVPDPSPQPTRRQIRLSSPERQRLSSLNLTPPEMEPPPKPPRSCSAL
ARHALESSFVGWGLPVQSPQALVAMEKEEKESPFSSEEEEEDVPLDSDVEQALQTF
AKTSGTMNNYPTWRRTLLRRAKEEEMKRFCKAQTIQRRRLNEIEAALRELEAEGVKLE
LALRRQSSSPEQQKKLWVGQLQLVDKKNLSVAEEAELMITVQELNLEEKQWQLDQ
ELRGYMNREENLKTAADRQAEDQVLRKLVLDLVNQRDALIRFQEERRLSELALGTGA
QGTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	MICAL1 microtubule associated monooxygenase, calponin and LIM domain containing 1 [Homo sapiens (human)]
Official Symbol	MICAL1

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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
SDS-PAGE	