

Recombinant Human DIAPH1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. DIAPH1-852H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	DIAPH1 MS Standard C13 and N15-labeled recombinant protein (NP_005210) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene is a homolog of the Drosophila diaphanous gene, and has been linked to autosomal dominant, fully penetrant, nonsyndromic sensorineural progressive low-frequency hearing loss. Actin polymerization involves proteins known to interact with diaphanous protein in Drosophila and mouse. It has therefore been speculated that this gene may have a role in the regulation of actin polymerization in hair cells of the inner ear. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene.
Molecular Mass	141.2 kDa
AA Sequence	MEPPGGSLGPGRGTRDKKKGRSPDELPSAGGDGGKSKKFTLKRLMADELERFTSM RIKKEKEKPNSAHRNSSASYGDDPTAQSLQDVSDEQVLVLFEQMLLDMNLNEEKQQ PLREKDIIKREMVSYLYTSKAGMSQKESSKSAMMYIQELRSGLRDMPLLSCLESRL VSLNNNPVSWVQTFGAEGLASLLDILKRLHDEKEETAGSYDSRNKHEIIRCLKAFMN NKFGIKTMLETEEGILLVLRAMPVAVPNMMIDAAKLLSALCILPQPEDMNERVLEAMT ERAEMDEVERFQPLLDGLKSGTTIALKVGCLQLINALITPAEELDFRVHIRSELMRLGL

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HQVLQDLREIENEDMRVQLNVFDEQGEEDSYDLKGRLLDDIRMEDDFNEVFQILLN
 TVKDSKAEPHFLSILQHLLLVNRNDYEARPQYYKLIEECISQIVLHKNGADPDFKCRHL
 QIEIEGLIDQMIDKTKVEKSEAKAAELEKKLDSELTARHELQVEMKKMESDFEQLQD
 LQGEKDALHSEKQQIATEKQDLEAEVSQLTGEVAKLTKELEDKEMASLSAAAITV
 PPSVPSRAPVPPAPPLPGDSGTIIPPPAPGDSTTPPPPPPPPPPPPLPGGVCISSP
 PSLPGGTAISPPPLSGDATIPPPPLPEGVGIPSPSSLPGGTAIPPPPLPGSARIPP
 PPPPLPGSAGIPPPPPPLPGEAGMPPPPPPPLPGGPGIPPPPPFPGGPGIPPPPPGM
 GMPPPPPPFGFGVPAAPVLPFGLTPKKLYKPEVQLRRPNWSKLVAEDLSQDCFWTK
 VKEDRFENNELFAKLTLTFSAQTKTSKAKKDQEGGEEKKSVQKKVKELKVLDSKTA
 QNLSIFLGSRMPYQEIKNVILEVNEAVLTESMIQNLIKQMPPEPEQLKMLSELKDEYD
 DLAESEQFGVVMGTVPRLRPRLNAILFKLQFSEQVENIKPEIVSVTAACEELRKSESF
 SNLLEITLLVGNYMNAGSRNAGAFGFNISFLCKLRDTKSTDQKMTLLHFLAELCENDY
 PDVLKFPDELAHVEKASRVSAENLQKNLDQMKKQISDVERDVQNFPAAATDEKDKFV
 EKMTSFVKDAQEQYNKLMMHSNMETLYKELGEYFLFDPKKLSVEEFFMDLHNFRN
 MFLQAVKENQKRRETEEKMRRAKLAKEKAERLEKQQKREQLIDMNAEGDETGV
 MDSLLEALQSGAAFRRKRGRPRQANRKAGCAVTSLLASELTKDDAMAAPPAKVSNS
 ETFPTILEEAKELVGRASTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

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Gene Name	DIAPH1 diaphanous related formin 1 [Homo sapiens (human)]
Official Symbol	DIAPH1
Synonyms	DIAPH1; diaphanous homolog 1 (Drosophila); DFNA1, diaphanous (Drosophila, homolog) 1; protein diaphanous homolog 1; hDIA1; LFHL1; diaphanous-related formin 1; diaphanous-related formin-1; DIA1; DRF1; DFNA1; FLJ25265;
Gene ID	1729
mRNA Refseq	NM_005219
Protein Refseq	NP_005210
MIM	602121
UniProt ID	O60610
SDS-PAGE	