

Recombinant Full Length Human DIAPH1 Protein, C-Flag-tagged

Cat. No. DIAPH1-720HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human DIAPH1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	140.1 kDa
AA Sequence	MEPPGGS LGPGRGTRDKKKGRSPDELPSAGGDGGKSKKFLERFTSMRIKKEKEKP NSAHRNSSASYGDDP TAQSLQDVSDEQVLVLFEQMLLD MNLNEEKQQPLREKDIII KREMVSQYLYTSKAGMSQKESKSSAMMYI QELRSGLRDMPLLSCLESLRVSLNNN PVSWVQTFGAEGLASLLDILKRLHDEKEETAGSYDSRNKHEIIR CLKAFMNNKFGIK TMLETEEGILLV RAMDPAVPNMMIDA AKLLSALCILPQPEDMNERVLEAMTERAEM

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DEVERFQPLLDGLKSGTTIALKVGCLQLINALITPAEELDFRVHIRSELMRLGLHQVLQ
 DLREIENEDMR VQLNVFDEQGEEDSYDLKGRLDDIRMEDDFNEVFQILLNTVKDS
 KAEPHFLSILQHLLLVVRNDYEARPQ YYKLIEECISQIVLHKNAGADPDFKCRHLQIEIEG
 LIDQMIDKTKVEKSEAKAAELEKKLDSELTARHELQ VEMKKMESDFEQKLQDLQGE
 KDALHSEKQQIATEKQDLEAEVSQLTGEVAKLTKELEDAKKEMASLSAAA ITVPPSV
 PSRAPVPPAPPLPGDSGTIIPPPAPGDSTTPPPPPPPPPPPPLPGGVCISSPPSLPG
 GTAIS PPPPLSGDATIPPPPLPEGVGIPSPSSLPGGTAIPPPPLPGSARIPPPPPPL
 PGSAGIPPPPPPLPGE AGMPPPPPPPLPGGPGIPPPPPFPGGPGIPPPPPGMGMPP
 PPPFGFGVPAAPVLPFGLTPKKLYKPEVQLR RPNWSKLVAEDLSQDCFWTKVKED
 RFENNELFAKLTLTFSAQTKTSKAKKDQEGGEEKSVQKKVKELK VLDSKTAQNL
 SIFLGSFRMPYQEIKNVILEVNEAVLTESMIQNLIKQMPEPEQLKMLSELKDEYDDLAE
 S EQFGVVMGTVPRLRPRLNAILFKLQFSEQVENIKPEIVSVTAACEELRKSESFSNLL
 EITLLVGNYMNAG SRNAGAFGFNISFLCKLRDTKSTDQKMTLLHFLAELCENDYPDV
 LKFPDELAHVEKASRVSAENLQKNLD QMKKQISDVERDVQNFPAAATDEKDKFVEKM
 TSFVKDAQEQYNKLMMHSMETLYKELGEYFLFDPKKLS VEEFFMDLHNFRNMF
 LQAVKENQKRRETEEKMRRAKLAKEKAERLEKQKQREQLIDMNAEGDETGVMD
 SLLEALQSGAAFRRKRGRPRQANRKAGCAVTSLLASELTKDDAMAAVPAKVSKNSET
 FPTILEEAKELVGR
 ASTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
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 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by

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conventional chromatography steps.

Protein Families Druggable Genome, Stem cell - Pluripotency

Protein Pathways Focal adhesion, Regulation of actin cytoskeleton

Full Length Full L.

GENE INFORMATION

Gene Name DIAPH1 diaphanous related formin 1 [Homo sapiens (human)]

Official Symbol DIAPH1

Synonyms DIA1; DRF1; DFNA1; LFHL1; SCBMS; hDIA1; mDia1

Gene ID 1729

mRNA Refseq NM_001079812.3

Protein Refseq NP_001073280.1

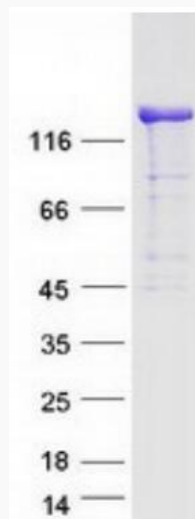
MIM 602121

UniProt ID O60610

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Coomassie blue staining of purified DIAPH1 protein.

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