

## Product datasheet for PH316318

### DIAPH1 (NM\_005219) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	DIAPH1 MS Standard C13 and N15-labeled recombinant protein (NP_005210)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC216318
Predicted MW:	141.2 kDa
Protein Sequence:	>RC216318 representing NM_005219 Red=Cloning site Green=Tags(s)

MEPPGGSLGPGRGTRDKKKGRSPDELPSAGDGGKSKKFTLKRLMADELERFTSMRIKKEKEKPNSAHRN  
SSASYGDDPTAQSLQDVSDQVLVLFQMLDMNLNNEEQQPLREKDIIKREMVSQYL YTSKAGMSQKE  
SSKSAMMYIQELRSLRDMPLLSCLSLRVSLNPNVSWVQTFGAEGLASLLDILKRLHDEKEETAGSYD  
SRNKHEIIRCLKAFMNNKFGIKTMLETEEGILLVVRAMPVAVPNMMIDAAKLLSALCILPQPEDMNERVL  
EAMTERAEMDEVERFQPLLDGLKSGTTIALKVGCLQLINALITPAEELDFRVHIRSELMRLGLHQVLQDL  
REIENEDMRVQLNVFDEQGEEDSYDLKGRLLDIRMEMDDFNEVFQILLNTVKDSKAEPHFLSILQHLLLV  
RNDYEARPQYYKIEECISQIVLHKNAGDPDFKCRHLQIEIEGLIDQMIDKTKVEKSEAKAAELEKKLDS  
ELTARHELQVEMKMESEDFEQQLQDLQGEKDALHSEKQIQIATEKQDLEAEVSQLTGEVAKLTKELEDAKK  
EMASLSAAAITVPPSVPSRAPVPPAPPLPGDSGTIIPPPAPGDSITPPPPPPPPPPPPPLPGGVCISSP  
PSLPGGTAISSPPPLSGDATIPPPPLPEGVGISSPSLPGGTAISSPPPLPGSARIPPPPPPLPGSAGI  
PPPPPPPLPGEAGMPPPPPLPGGPGIPPPPPFPGGPGIPPPPPGMGMPPPPPFPGFVPAAPVLPFGLTPK  
KLYKPEVQLRRPNWSKLV AEDLSQDCFWTKVKEDRFENNELFAKLTTFSAQTKTSKAKKDQEGGEEKS  
VQKKVKELKVLDSKTAQNL SIFLGSFRMPYQEIKNVILEVNEAVL TESMIQNL IKQMPPEQLKMLSEL  
KDEYDDLAESEQFGVVMGTVPRLRPNLAILFKLQFSEQVENIKPEIVSVTAACEELRKSEFSNLLIEIT  
LLVGNMYNAGSRNAGAFGNISFLCKLRDTKSTDQKMTLLHFLAELCENDYPDVLKFPDELAHVEKASRV  
SAENLQKNLDQMKKQISDVERDVQNFPAATDEKDKFVEKMTSFVKDAQEQYNKLRMMHNSMETLYKELGE  
YFLFDPKKSVEEFFMDLHNFRNMFLLQAVKENQKRRETEKMRRAKLAKEKAERLEKQKREQLIDMN  
AEGDETVMSLLEALQSGAAFRKRGRPRQANRKAGCAVTSLLASELTKDDAMAAVPAKVSKNSETFPTI  
LEEAKELVGRAS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

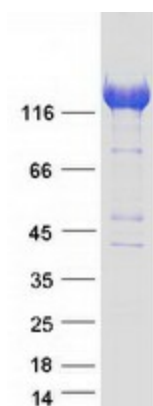
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method



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<b>Labeling Method:</b>	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3
<b>Storage:</b>	Store at -80°C. Avoid repeated freeze-thaw cycles.
<b>Stability:</b>	Stable for 3 months from receipt of products under proper storage and handling conditions.
<b>RefSeq:</b>	<a href="#">NP_005210</a>
<b>RefSeq Size:</b>	5745
<b>RefSeq ORF:</b>	3816
<b>Synonyms:</b>	DFNA1; DIA1; DRF1; hDIA1; LFHL1; SCBMS
<b>Locus ID:</b>	1729
<b>UniProt ID:</b>	<a href="#">O60610</a> , <a href="#">Q6URC4</a>
<b>Cytogenetics:</b>	5q31.3
<b>Summary:</b>	This gene is a homolog of the <i>Drosophila</i> 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 <i>Drosophila</i> 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. [provided by RefSeq, Jul 2008]
<b>Protein Families:</b>	Druggable Genome, Stem cell - Pluripotency
<b>Protein Pathways:</b>	Focal adhesion, Regulation of actin cytoskeleton

### Product images:



Coomassie blue staining of purified DIAPH1 protein (Cat# [TP316318]). The protein was produced from HEK293T cells transfected with DIAPH1 cDNA clone (Cat# [RC216318]) using MegaTran 2.0 (Cat# [TT210002]).