

Recombinant Human DNM1L Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. DNM1L-3896H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	DNM1L MS Standard C13 and N15-labeled recombinant protein (NP_036192) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a member of the dynamin superfamily of GTPases. The encoded protein mediates mitochondrial and peroxisomal division, and is involved in developmentally regulated apoptosis and programmed necrosis. Dysfunction of this gene is implicated in several neurological disorders, including Alzheimer's disease. Mutations in this gene are associated with the autosomal dominant disorder, encephalopathy, lethal, due to defective mitochondrial and peroxisomal fission (EMPF). Alternative splicing results in multiple transcript variants encoding different isoforms.
Molecular Mass	81.7 kDa
AA Sequence	MEALIPVINKLQDVFNTVGADIIQLPQIVVVGTSQSSGKSSVLESVGRDLLPRGTGIVT RRPLILQLVHVSQEDKRKTTGEENGVEAEWVGKFLHTKNKLYTDFDEIRQEIENETE RISGNNKGVSPPIHLKIFSPNVVNLTLVDLPGMTKVPVGDQPKDIELQIRELILRFISN PNSIILAVTAANTDMATSEALKISREVDPDGRRTLAVITKLDLMDAGTDAMDVLMGRV IPVKLGIIIGVVNRSQLDINNKKSVTDSIRDEYAFLQKKYPSLANRNGTKYLARTLNRL

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

MHHIRDCLPELKTRINVLAAQYQSLLNSYGEVDDKSATLLQLITKFATEYCNTIEGTA
 KYIETSELGGARICYIFHETFGRTLSDPLGGLNTIDILTAIRNATGPRPALFVPEVS
 FELLVKRQIKRLEEPSLRCVELVHEEMQRRIQHCSNYSTQELLRFPKLHDAIVEVTCL
 LRKRLPVTNEMVHNLVAIELAYINTKHPDFADACGLMNNNIEEQRRNRLARELPSAV
 SRDKSSKVPSALAPASQEPSPAASAEADGKLIQDSRRETKNVASGGGGVGDGVQE
 PTTGNWRGMLKTSKAEELLAEKSKPIPIIMPASPQKGHAVNLLDVPVPVARKLSARE
 QRDCEVIERLIKSYFLIVRKNIQDSVPKAVMHFLVNHVKDTLQSELVGQLYKSSLLDD
 LLTESEDMAQRRKEAADMLKALQGASQIIAEIRETHLWTRTRPLEQKLISEEDLAAND
 ILDYKDDDDKV

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 DNM1L dynamin 1-like [Homo sapiens (human)]

Official Symbol DNM1L

Synonyms DNM1L; dynamin 1-like; dynamin-1-like protein; DRP1; DVLP; DYMPLE; HDYNIV; VPS1; dynamin-like protein 4; dynamin-like protein IV; Dnm1p/Vps1p-like protein; dynamin-related protein 1; dynamin family member proline-rich carboxyl-terminal domain less; DLP1; EMPF; DYNIV-11; FLJ41912;

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Gene ID	10059
mRNA Refseq	NM_012062
Protein Refseq	NP_036192
MIM	603850
UniProt ID	O00429
SDS-PAGE	