

## Recombinant Human DNM1L Protein (1-710 aa), His-Myc-tagged

**Cat. No.** DNM1L-2584H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| <b>Product Overview</b> | Recombinant Human DNM1L Protein (1-710 aa) is produced by E. coli expression system. This protein is fused with a 10xHis tag at the N-terminal and a Myc tag at the C-terminal. Research Area: Cancer. Protein Description: Full Length of Isoform 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>ProteinLength</b>    | 1-710 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>      | Functions in mitochondrial and peroxisomal division. Mediates membrane fission through oligomerization into membrane-associated tubular structures that wrap around the scission site to constrict and sever the mitochondrial membrane through a GTP hydrolysis-dependent mechanism. Through its function in mitochondrial division, ensures the survival of at least some types of postmitotic neurons, including Purkinje cells, by suppressing oxidative damage. Required for normal brain development, including that of cerebellum. Facilitates developmentally regulated apoptosis during neural tube formation. Required for a normal rate of cytochrome c release and caspase activation during apoptosis; this requirement may depend upon the cell type and the physiological apoptotic cues. Plays an important role in mitochondrial fission during mitosis. Required for formation of endocytic vesicles. Proposed to regulate synaptic vesicle membrane dynamics through association with BCL2L1 isoform Bcl-X(L) which stimulates its GTPase activity in synaptic vesicles; the function may |

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|                       | require its recruitment by MFF to clathrin-containing vesicles. Required for programmed necrosis execution.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Form</b>           | Tris-based buffer, 50% glycerol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Molecular Mass</b> | 84.4 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>AA Sequence</b>    | <p>MEALIPVINKLQDVFNTVGADIIQLPQIVVVGTSQSSGKSSVLESVGRDLLPRGTGIVT</p> <p>RRPLILQLVHVSQEDKRKTTGEENGVEAEWGWKFLHTKNKLYTDFDEIRQEIENETE</p> <p>RISGNNKGVSPPIHLKIFSPNVVNLTLVDLPGMTKVPVGDQPKDIELQIRELILRFISN</p> <p>PNSIILAVTAANTDMATSEALKISREVDPDGRRTLAVITKLDLMDAGTDAMDVLMGRV</p> <p>IPVKLGIIIGVVNRSQLDINNKKSVTDSIRDEYAFLLQKKYPSLANRNGTKYLARTLNRL</p> <p>MHHIRDCLPELKTINVLAAQYQSLLNSYGEVDDKSATLLQLITKFATEYCNTIEGTA</p> <p>KYIETSELCCGARICYIFHETFGRTLESVDPLGGLNTIDILTAIRNATGPRPALFVPEVS</p> <p>FELLVKRQIKRLEEPSLRVCLVHEEMQRRIQHCSNYSTQELLRFPKLHDAIVEVTCL</p> <p>LRKRLPVTNEMVHNLVAIELAYINTKHPDFADACGLMNNNIEEQRRNRLARELPSAV</p> <p>SRDKLIQDSRRETKNVASGGGGVGDGVQEPTTGNWRGMLKTSKAEELLAEEKSKPI</p> <p>PIMPASPQKGHAVNLLDVPVPVARKLSAREQRDCEVIERLIKSFLYLRKNIQDSVPK</p> <p>AVMHFLVNHVKDTLQSELVGQLYKSSLLDDLLTESEDMAQRKEAADMLKALQGAS</p> <p>QIIAEIRETHLW</p> |
| <b>Purity</b>         | > 85% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Notes</b>          | Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Storage</b>        | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

**Concentration**

A hardcopy of COA will be sent along with the products. Please refer to it for detailed information.

**GENE INFORMATION**

**Gene Name** [DNM1L dynamin 1-like \[ Homo sapiens \]](#)

**Official Symbol** [DNM1L](#)

**Synonyms** DNM1L; dynamin 1-like; dynamin-1-like protein; DRP1; DVLP; DYMPLE; HDYNIV; VPS1; DLP1; EMPF; DYNIV-11; FLJ41912;

**Gene ID** [10059](#)

**mRNA Refseq** [NM\\_005690](#)

**Protein Refseq** [NP\\_005681](#)

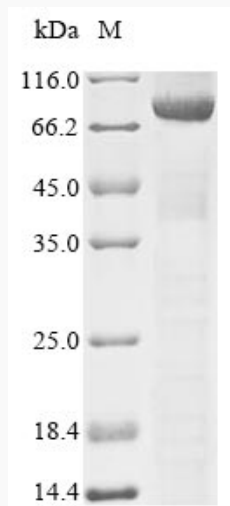
**MIM** [603850](#)

**UniProt ID** [O00429](#)

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(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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