

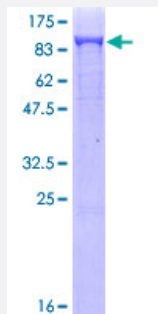
Full-Length

DNM1L (Human) Recombinant Protein (P01)

Catalog # H00010059-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human DNM1L full-length ORF (AAH24590.1, 1 a.a. - 710 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MEALIPVINKLQDVFNVTGADIQLPQIVVGTQSSGKSSVLESVGRDLLPRGTGMVTRRPLILQLVH
VSQEDKRKTTGEENGVEAEWVGKFLHTKNKLYTDFDEIRQEIENETERISGNNKGVSPPIHLKIFS
PNVVNLTLVDLPGMTKVPVGDQPKDIELQIRELILRFISNPNSIILAVTAANTDMATSEALKISREVD
DGRRTLAVITKLDLMDAGTDAMDVLMGRVIPVKLGIGVVNRSQLDINNKKSVTDSIRDEYAFQKK
YPSLANRNGTKYLARTLNRLMHHRDCLPELKTRINVLAAQYQSLLNSYGEPVDDKSATLLQLITKF
ATEYCNTIEGTAKYIETSELGGARICYIFHETFGRTLESVDPLGGLNTIDILTAIRNATGPRPALFVPE
VSFELLVKRQIKRLEEPSLRCVELVHEEMQRIQHCSNYSTQELLRFPKLHDAIVEVVTCLLRKRLP
VTNEMVHNLVAIELAYINTKHPDFADACGLMNNNIEEQRRNRLARELPSAVSRDKLIQDSRRETKN
VASGGGGVGDGVQEPTTGNWRGMLKTSKAEELLAEEKSKPIIMPASPQKGHAVNLLDVPVPV
ARKLSAREQRDCEVIERLIKSIFLVRKNIQDSVPKAVMHFLVNHVKDTLQSELVGQLYKSSLLDDL
LTESEDMAQRKEAADMLKALQGASQIAEIRETHLW

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

103.84

Interspecies Antigen Sequence

Mouse (97); Rat (98)

Preparation Method

[in vitro wheat germ expression system](#)

Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — DNM1L

Entrez GeneID	10059
GeneBank Accession#	BC024590
Protein Accession#	AAH24590.1
Gene Name	DNM1L
Gene Alias	DLP1, DRP1, DVLP, DYMPLE, DYNIV-11, FLJ41912, HDYNIV, VPS1
Gene Description	dynamain 1-like
Omim ID	603850
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the dynamin superfamily of GTPases. Members of the dynamin-related subfamily, including the <i>S. cerevisiae</i> proteins Dnm1 and Vps1, contain the N-terminal tripartite GTPase domain but do not have the pleckstrin homology or proline-rich domains. This protein establishes mitochondrial morphology through a role in distributing mitochondrial tubules throughout the cytoplasm. The gene has 3 alternatively spliced transcripts encoding different isoforms. These transcripts are alternatively polyadenylated. [provided by RefSeq]

Other Designations

Dnm1p/Vps1p-like protein|dynamin 1-like protein|dynamin family member proline-rich carboxyl-terminal domain less|dynamin-like protein 4|dynamin-like protein IV|dynamin-related protein 1

Publication Reference

- [Inhibition of DNM1L and mitochondrial fission attenuates inflammatory response in fibroblast-like synoviocytes of rheumatoid arthritis.](#)

Wang X, Chen Z, Fan X, Li W, Qu J, Dong C, Wang Z, Ji Z, Li Y.

Journal of Cellular and Molecular Medicine 2020 Jan; 24(2):1516.

Application: Func, Recombinant protein

- [Dynamin-like protein 1 cleavage by calpain in Alzheimer's disease.](#)

Jiang S, Shao C, Tang F, Wang W, Zhu X.

Aging Cell 2019 Feb; e12912.

Application: Func, Calpain-1

- [A selective inhibitor of mitofusin 1-βIIIPKC association improves heart failure outcome in rats.](#)

Ferreira JCB, Campos JC, Qvit N, Qi X, Bozi LHM, Bechara LRG, Lima VM, Queliconi BB, Disatnik MH, Dourado PMM, Kowaltowski AJ, Mochly-Rosen D.

Nature Communications 2019 Jan; 10(1):329.

Application: WB, Rat, Rat cardiomyocytes

- [Drp1 phosphorylation by MAPK1 causes mitochondrial dysfunction in cell culture model of Huntington's disease.](#)

Roe AJ, Qi X.

Biochemical and Biophysical Research Communications 2018 Feb; [Epub].

Application: Mass spectrometry, Mouse, HdhQ7 cells, Q111 cells

- [Inhibition of mitochondrial fragmentation diminishes Huntington's disease-associated neurodegeneration.](#)

Guo X, Disatnik MH, Monbureau M, Shamloo M, Mochly-Rosen D, Qi X.

The Journal of Clinical Investigation 2013 Dec; 123(12):5371.

Application: IF, IP, WB-Ce, WB-Tr, Human, Mouse, Striatum, HEK 293T cells, Fibroblasts

- [Inhibition of excessive mitochondrial fission reduced aberrant autophagy and neuronal damage caused by LRRK2 G2019S mutation.](#)

Su YC, Qi X.

Human Molecular Genetics 2013 Nov; 22(22):4545.

Application: Func, PI, Recombinant protein

- [A novel Drp1 inhibitor diminishes aberrant mitochondrial fission and neurotoxicity.](#)

Qi X, Qvit N, Su YC, Mochly-Rosen D.

Journal of Cell Science 2013 Feb; 126(Pt 3):789.

Application: IF, IP-WB, WB-Ce, Human, SH-SY5Y cells

- [Aberrant mitochondrial fission in neurons induced by protein kinase C{delta} under oxidative stress conditions in vivo.](#)

Qi X, Disatnik MH, Shen N, Sobel RA, Mochly-Rosen D.

Molecular Biology of the Cell 2011 Jan; 22(2):256.

Application: Func, Recombinant protein

Pathway

- [Endocytosis](#)
- [Fc gamma R-mediated phagocytosis](#)

Disease

- [Tobacco Use Disorder](#)