

Active Recombinant Full Length Human DNM1L Protein, C-Flag-tagged

Cat. No. DNM1L-199HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human DNM1L Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	Cell treatment
Molecular Mass	81.7 kDa
AA Sequence	MEALIPVINKLQDVFNTVGADIIQLPQIVVVGTTQSSGKSSVLESVLVGRDLLPRGTGIVT RRPLILQLVHV SQEDKRKTTGEENGVEAEWVGKFLHTKNKLYTDFDEIRQEIENETE

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RISGNNKGVSP EPIHLKIFSPNVV NLTLVDLPGMTKVPVGDQPKDIELQIRELILRFIS
 NPNSIILAVTAANTDMATSEALKISREVDPDGRRT LAVITKLDLMDAGTDAMDVLMDG
 RVIPVKLGIIIGVVNRSQLDINNKKSVTDSIRDEYAFLLQKKYPSLANRN GTKYLARTLN
 RLLMHHIRDCLPELKTRINVLAQYQSLLSYGEVDDKSATLLQLITKFATEYCNITIE
 G TAKYIETSELCCGARICYIFHETFGRTLESVDPLGGLNTIDILTAIRNATGPRPALFV
 PEVSFELLVKRQ IKRLEEPSLRCVELVHEEMQRIIQHCSNYSTQELLRFPKLHDAIVE
 VVTCLLRKRLPVTNEMVHNLVAIE LAYINTKHPDFADACGLMNNNIEEQRRNRLARE
 LPSAVSRDKSSKVPSALAPASQEPSPAASAEADGKLI QDSRRETKNVASGGGGVG
 DGVQEPTTGNWRGMLKTSKAEELLAEKSKPIPIIMPASPQKGHAVNLLDVPV PVAR
 KLSAREQRDCEVIERLIKSYFLIVRKNIQDSVPKAVMHFLVNHVKDTLQSELVGQLYK
 SSSLDDLL
 TESEDMAQRRKEAADMLKALQGASQIIAEIRETHLWTRTRPLEQKLISEEDLAANDIL
 DYKDDDDKV

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 conventional chromatography steps.
Protein Pathways	Endocytosis, Fc gamma R-mediated phagocytosis
Full Length	Full L.

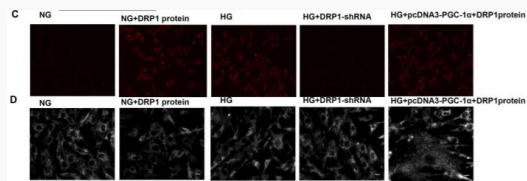
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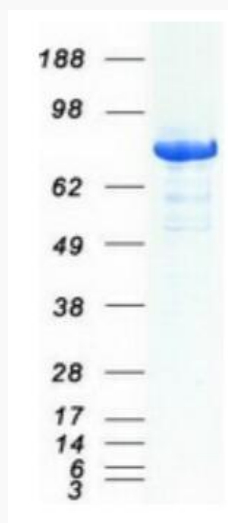
GENE INFORMATION

Gene Name	DNM1L dynamin 1 like [Homo sapiens (human)]
Official Symbol	DNM1L
Synonyms	DLP1; DRP1; DVLP; EMPF; OPA5; EMPF1; DYMPLE; HDYNIV
Gene ID	10059
mRNA Refseq	NM_012062.5
Protein Refseq	NP_036192.2
MIM	603850
UniProt ID	O00429



Inhibitory action of PGC-1 α on mitochondrial fragmentation occurs via the downregulation of DRP1. Images show the ROS production (panel C) and mitochondrial morphology changes (panel D) in rat glomerular mesangial cells (RMCs) exposed to normal glucose (NG), NG incubated with DRP1 protein and high glucose (HG) conditions, RMCs transfected with DRP1 shRNA to silence the expression of DRP1 under HG conditions (HG+DRP1-shRNA), and RMCs transfected with pcDNA-PGC-1 α to overexpress PGC-1 α and exogenous

DPR1 protein under HG conditions (HG+pcDNA3-PGC1alpha+DRP1).



Coomassie blue staining of purified DNM1L protein.

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