

Recombinant Human DNM1L Protein (Met520-Arg736), His tagged

Cat. No. DNM1L-1671H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant human DRP1 (Met520-Arg736) fused with His tag was expressed in E. coli.

Species Human

Source E.coli

ProteinLength Met520-Arg736

Description 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. The specific recruitment at scission sites is mediated by membrane receptors like MFF, MIEF1 and MIEF2 for mitochondrial membranes. While the recruitment by the membrane receptors is GTP-dependent, the following hydrolysis of GTP induces the dissociation from the receptors and allows DNM1L filaments to curl into closed rings that are probably sufficient to sever a double membrane. 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.

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Form	Lyophilized powder/frozen liquid
Molecular Mass	54.61 kDa
Purity	>90% as determined by SDS-PAGE
Notes	For research use only.
Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt.
Storage Buffer	Supplied as solution form in PBS, pH 7.5 or lyophilized from PBS, pH 7.5.
Reconstitution	Reconstitute in sterile water for a stock solution.
Shipping	They are shipped out with dry ice/blue ice unless customers require otherwise.
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;
Gene ID	10059

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mRNA Refseq	NM_005690
Protein Refseq	NP_005681
MIM	603850
UniProt ID	O00429

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