

Product Datasheet

Recombinant Human DRP1 GST (N-Term) Protein H00010059-P01-10ug

Unit Size: 10 ug

Store at -80C. Avoid freeze-thaw cycles.

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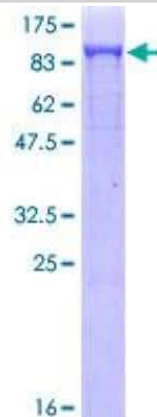
H00010059-P01-10ug**Recombinant Human DRP1 GST (N-Term) Protein**

Product Information	
Unit Size	10 ug
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -80C. Avoid freeze-thaw cycles.
Preservative	No Preservative
Purity	>80% by SDS-PAGE and Coomassie blue staining
Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH 8.0 in the elution buffer.
Target Molecular Weight	103.84 kDa
Product Description	
Description	<p>A recombinant protein with GST tag at N-terminal corresponding to the amino acids 1-710 of Human DNM1L</p> <p>Source: <i>Wheat Germ (in vitro)</i></p> <p>Amino Acid Sequence: MEALIPVINKLQDVFNTVGADIIQLPQIVVVGTSQSSGKSSVLESVGRDLLPRGT GIVTRRPLILQLVHVSQEDKRKTTGEENGVEAEWGWKFLHTKNKLYTDFDEIRQ EIENETERISGNKGVSPPIHLKIFSPNVVNLTLVDLPGMTKVPVGDQPDIEL QIRELILRFISNPNSIILAVTAANTDMATSEALKISREVPDGRRTLAVITKLDLMD AGTDAMDVLMGRVIPVKLGIIQVNVNRSQLDINNKKSVTDSIRDEYAFQKKYPSL ANRNGTKYLARTLNRLMHIRDCLPELKTRINVLAAQYQSLLSYGEVDDKS ATLLQLITKFATEYCNTEGTAKYIETSELGGARICYIFHETFGRTLESVDPLGG LNTIDILTAIRNATGPRPALFVPEVSFELLVKRQIKRLEEPSLRCELVHEEMQRII QHCSNYSTQELLRFPKLHDAIVEVVTCLLRKRLPVTNEMVHNLVAIELAYINTKH PDFADACGLMNNNIEEQRRNRLARELPSAVSRDKLIQDSRRETKNVASGGGG VGDGVQEPTTGNWRGMLKTSKAEELLAEEKSKPIIMPASPQKGHAVNLLDVP VPVARKLSAREQRDCEVIERLIKSYFLIVRKNIQDSVPKAVMHFLVNHVKDTLQS ELVGQLYKSSLLDDLLTESEDMAQRRKEAADMLKALQGASQIIAEIRETHLW</p>
Gene ID	10059
Gene Symbol	DNM1L
Species	Human
Preparation Method	in vitro wheat germ expression system
Details of Functionality	This protein was produced in an in vitro wheat germ expression system that should preserve correct conformational folding that is necessary for biological function. While it is possible that this protein could display some level of activity, the functionality of this protein has not been explicitly measured or validated.
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.
Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, In vitro assay, Immunoprecipitation, Protein Array, Immunoaffinity Purification, Mass Spectrometry

Recommended Dilutions	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, In vitro assay, Protein Array, Mass Spectrometry, Immunoaffinity Purification
Application Notes	Use in Functional Assay reported in scientific literature (PMID: 24282027).

Images

SDS-Page: Recombinant Human DRP1 Protein [H00010059-P01] - 12.5% SDS-PAGE Stained with Coomassie Blue.



Publications

Zhang X, Griepentrog JE, Zou B et al. CaMKIV regulates mitochondrial dynamics during sepsis *Cell Calcium* 2020-09-05 [PMID: 32932146] (In vitro)

Kato S, Okamura E, Matsunaga TM Cyanidioschyzon merolae aurora kinase phosphorylates evolutionarily conserved sites on its target to regulate mitochondrial division *Commun Biol* 2019-12-20 [PMID: 31925296] (In vitro, Algae)

Shao C, Tang F, Wang W, and Zhu X Dynamin-like protein 1 cleavage by calpain in Alzheimer's disease. *Aging Cell*. 2019-02-14 [PMID: 30767411]

Ferreira JCB, Campos JC, Qvit N et al. A selective inhibitor of mitofusin 1- β IIPKC association improves heart failure outcome in rats. *Nat Commun*. 2019-04-09 [PMID: 30659190]

Roe AJ, Qi X., et al. Drp1 phosphorylation by MAPK1 causes mitochondrial dysfunction in cell culture model of Huntington's disease. *Biochem Biophys Res Commun* 2018-01-24 [PMID: 29397067]

Napoli E, Song G, Liu S et al. Zdhhc13-dependent Drp1 S-palmitoylation impacts brain bioenergetics, anxiety, coordination and motor skills. *Sci Rep*. 2017-10-16 [PMID: 29038583] (WB, Mouse)

Qi X, Disatnik MH, Shen N et al. Aberrant mitochondrial fission in neurons induced by protein kinase C $\{\delta\}$ under oxidative stress conditions in vivo. *Mol Biol Cell*. 2010-11-30 [PMID: 21119009]

Qi X, Qvit N, Su YC, Mochly-Rosen D. A novel Drp1 inhibitor diminishes aberrant mitochondrial fission and neurotoxicity. *J Cell Sci*. 2012-12-13 [PMID: 23239023]

Su YC, Qi X. Inhibition of excessive mitochondrial fission reduced aberrant autophagy and neuronal damage caused by LRRK2 G2019S mutation. *Hum Mol Genet*. 2013-06-27 [PMID: 23813973]

Guo X, Disatnik MH, Monbureau M et al. Inhibition of mitochondrial fragmentation diminishes Huntington's disease-associated neurodegeneration. *J Clin Invest*. 2013-11-15 [PMID: 24231356]

Stafa K, Tsika E, Moser R et al. Functional interaction of Parkinson's disease-associated LRRK2 with members of the dynamin GTPase superfamily. *Hum Mol Genet* 2013-12-08 [PMID: 24282027] (Func)



Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

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