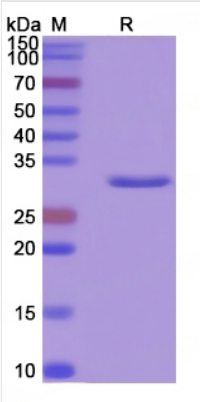
DNM1 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	DNM1, Recombinant Protein
Full Product Name	Recombinant Human DNM1 Protein, N-His
Product Gene Name	DNM1 recombinant protein
Product Synonym Names	DNM1; DNM; Dynamin-1
Host	E coli
Form/Format	Lyophilized from a solution in PBS pH7.4, 0.02% NLS, 1mM EDTA, 4% Trehalose, 1% Mannitol.
Purity/Purification	>90% as determined by SDS-PAGE
Preparation and Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 degree C for one week. Store at -20 to -80 degree C for twelve months from the date of receipt.
Molecular Weight	97,408 Da
Sequence Positions	Met1-Arg271
Chromosome Location	Chromosome: 9; NC_000009.11 (130965663..131017527). Location: 9q34
OMIM	602377
3D Structure	ModBase 3D Structure for Q05193
Species	Human
Reconstitution	Reconstitute in sterile water for a stock solution.
Product Categories/Family for DNM1 recombinant protein	Recombinant Proteins
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for DNM1 recombinant protein	SDS-PAGE (SDS), Western Blot (WB), ELISA (EIA), Immunogen
Related Product Information for DNM1 recombinant protein	MBS1577025 is a recombinant protein targeting DNM1. Also known as Recombinant Human DNM1 Protein, N-His. Host: E coli.
Other Notes	Small volumes of DNM1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



SDS-Page of DNM1 recombinant protein
SDS PAGE for Recombinant Human DNM1 Protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DNM1. It may not necessarily be applicable to this product.

NCBI GI #	56549117
NCBI GeneID	1759
NCBI Accession #	NP_001005336.1
UniProt Primary Accession #	Q05193
UniProt Secondary Accession #	Q5SYX0; Q5SYX2; Q6P3T6; Q86VD2; A6NLM6
UniProt Related Accession #	Q05193
GenBank Nucleotide #	NM_001005336.1
NCBI Official Full Name	dynamin-1 isoform 2
NCBI Official Synonym Full Names	dynamin 1
NCBI Official Symbol	DNM1
NCBI Official Synonym Symbols	DNM
UniProt Protein Name	Dynamin-1
Protein Family	Dynamin
UniProt Gene Name	DNM1
UniProt Synonym Gene Names	DNM
UniProt Entry Name	DYN1_HUMAN
NCBI Protein Information	dynamin-1
NCBI Summary for DNM1	This gene encodes a member of the dynamin subfamily of GTP-binding proteins. The encoded protein possesses unique mechanochemical properties used to tubulate and sever membranes, and is involved in clathrin-mediated endocytosis and other vesicular trafficking processes. Actin and other cytoskeletal proteins act as binding partners for the encoded protein, which can also self-assemble leading to stimulation of GTPase activity. More than sixty highly conserved copies of the 3' region of this gene are found elsewhere in the genome, particularly on chromosomes Y and 15. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Jul 2008]

UniProt Comments for DNM1	DYN1: a microtubule-associated force-producing protein involved in producing microtubule bundles and able to bind and hydrolyze GTP. Most probably involved in vesicular trafficking processes. Concentrates within the presynaptic compartment and may participate in specialized neuronal functions such as rapid synaptic vesicle recycling. Part of a protein network that controls nucleation of actin from membranes. Contains one PH domain. Protein type: Microtubule-binding; Hydrolase; EC 3.6.5.5; Vesicle; Motor; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 9q34 Cellular Component: microtubule; membrane coat; plasma membrane Molecular Function: protein C-terminus binding; GTPase activity; identical protein binding; protein binding; GTP binding; protein complex binding; nitric-oxide synthase binding; protein kinase binding Biological Process: axon guidance; receptor-mediated endocytosis; endosome organization and biogenesis; receptor internalization; ephrin receptor signaling pathway; endocytosis Disease: Epileptic Encephalopathy, Early Infantile, 31
Research Articles on DNM1	**1.** dyn1 affects amyloid generation through regulation of BACE-1 subcellular localization and therefore its enzymatic activities.
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