

Recombinant Human DNM1, GST-tagged

Cat. No. DNM1-12103H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human DNM1 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	502-851a.a.
Description	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.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

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GENE INFORMATION

Gene Name	DNM1 dynamin 1 [Homo sapiens]
Official Symbol	DNM1
Synonyms	DNM1; dynamin 1; DNM; dynamin-1;
Gene ID	1759
mRNA Refseq	NM_001005336
Protein Refseq	NP_001005336
MIM	602377
UniProt ID	Q05193
Chromosome Location	9q34
Pathway	Axon guidance, organism-specific biosystem; Bacterial invasion of epithelial cells, organism-specific biosystem; Bacterial invasion of epithelial cells, conserved biosystem; CXCR3-mediated signaling events, organism-specific biosystem; CXCR4-mediated signaling events, organism-specific biosystem; Developmental Biology, organism-specific biosystem; EGFR1 Signaling Pathway, organism-specific biosystem;
Function	GTP binding; GTPase activity; hydrolase activity; identical protein binding; nucleotide binding; protein binding;

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