

## Recombinant Human DNM2, GST-tagged

Cat. No. DNM2-12105H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human DNM2 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	517-866a.a.
<b>Description</b>	<p>Dynamins represent one of the subfamilies of GTP-binding proteins. These proteins share considerable sequence similarity over the N-terminal portion of the molecule, which contains the GTPase domain. Dynamins are associated with microtubules. They have been implicated in cell processes such as endocytosis and cell motility, and in alterations of the membrane that accompany certain activities such as bone resorption by osteoclasts. Dynamins bind many proteins that bind actin and other cytoskeletal proteins. Dynamins can also self-assemble, a process that stimulates GTPase activity. Five alternatively spliced transcripts encoding different proteins have been described. Additional alternatively spliced transcripts may exist, but their full-length nature has not been determined.</p>
<b>Storage</b>	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
<b>Storage Buffer</b>	1M PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH8. ) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

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## GENE INFORMATION

<b>Gene Name</b>	DNM2 dynamin 2 [ Homo sapiens ]
<b>Official Symbol</b>	DNM2
<b>Synonyms</b>	DNM2; dynamin 2; dynamin-2; CMTDI1; CMTDIB; cytoskeletal protein; DI CMTB; DYN2; dynamin II; DYNII; CMT2M; DI-CMTB;
<b>Gene ID</b>	1785
<b>mRNA Refseq</b>	NM_001005360
<b>Protein Refseq</b>	NP_001005360
<b>MIM</b>	602378
<b>UniProt ID</b>	P50570
<b>Chromosome Location</b>	19p
<b>Pathway</b>	Arf6 trafficking events, organism-specific biosystem; Axon guidance, organism-specific biosystem; Bacterial invasion of epithelial cells, organism-specific biosystem; Bacterial invasion of epithelial cells, conserved biosystem; Clathrin derived vesicle budding, organism-specific biosystem; Developmental Biology, organism-specific biosystem; Endocrine and other factor-regulated calcium reabsorption, organism-specific biosystem;
<b>Function</b>	GTP binding; GTPase activity; GTPase activity; enzyme binding; hydrolase activity; microtubule binding; nucleotide binding; protein binding; protein complex binding;

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protein kinase binding;

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