Recombinant Human DNM2, GST-tagged

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

SPECIFICATION

Product Overview	Recombinant Human DNM2 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	517-866a.a.
Description	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.
Storage	The protein is stored in PBS buffer at -20℃. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100,15%glycerol.

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GENE INFORMATION

Gene Name	DNM2 dynamin 2 [Homo sapiens]
Official Symbol	DNM2
Synonyms	DNM2; dynamin 2; dynamin-2; CMTDI1; CMTDIB; cytoskeletal protein; DI CMTB; DYN2; dynamin II; DYNII; CMT2M; DI-CMTB;
Gene ID	1785
mRNA Refseq	NM_001005360
Protein Refseq	NP_001005360
MIM	602378
UniProt ID	P50570
Chromosome Location	19p
Pathway	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;
Function	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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