

## Recombinant Human DNM2, His-tagged

**Cat. No.** DNM2-26990TH    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant fragment, corresponding to amino acids 529-824 of Human Dynamin 2 with N terminal His tag. MWt 34kDa;
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	529-824 a.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>Conjugation</b>	HIS
<b>Form</b>	Lyophilised:Reconstitution with 104 µl aqua dest.
<b>Storage buffer</b>	Preservative: None Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium

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phosphate, 10mM Sodium chloride, pH 4.5

**Storage**

Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

**Sequences of amino acids**

(Amino acid sequence (Sequence determined by 5 Sequencing))LMKGGKEYWFVL  
 TAESLSWYKDEEE KEKKYMLPLDNLKIRDVEKGFMSNKHVFAIFNTEQRNV YKDLR  
 QIELACDSQEDVDSWKASFLRAGVYPEKDQAENEDGAQENTFSMDPQLERQVETIR  
 NLVDSYVAIINKSIRDL MPKTIMHLMINNTKAFIHHELLAYLYSSADQSSLMEEES ADQ  
 AQRDDMLRMYHALKEALNIIGDISTSTVSTPVPP PVDDTWLQSASSHSPTPQRRP  
 VSSIHPGRPPAVRGPTPG PPLIPVPVGAASFSAPPISRPQSGVFSANSDLFPAP

## 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;

**Gene ID**

1785

**mRNA Refseq**

NM\_001005360

**Protein Refseq**

NP\_001005360

**MIM**

602378

**Uniprot ID**

P50570

**Chromosome**

19p

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<b>Location</b>	
<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;
<b>Function</b>	GTP binding; GTPase activity; GTPase activity; enzyme binding; hydrolase activity;

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