

Recombinant Human FDFT1

Cat. No. FDFT1-27574TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human FDFT1 with an N-terminal proprietary tag; 71.98 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	417 amino acids
Description	This gene encodes a membrane-associated enzyme located at a branch point in the mevalonate pathway. The encoded protein is the first specific enzyme in cholesterol biosynthesis, catalyzing the dimerization of two molecules of farnesyl diphosphate in a two-step reaction to form squalene.
Molecular Weight	71.980kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino	MEFVKCLGHPEEFYNLVRFRVGGKRKVMKMDQDSLSSSL KTCYKYLNQTSRSA

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acids

AVIQALDGEMRNAVCIFYLVLRALD TLEDDMTISVEKKVPLLHNFHSFLYQPDWRFM
 ESKEKDRQ VLEDFTISLEFRNLAKEYQTVIADICRRMGIGMAEFLDK HVTSEQEW
 DKYCHYVAGLVGIGLSRLFSASEFEDPLVGED TERANSMGLFLQKTNIIRDYLEDQQ
 GGREFWPQEVWSRYV KKLGDFAKPENIDLAVQCLNELITNALHHIPDVITYLSRL RN
 QSVFNFCAIPQVMAIATLAACYNNQQVFKGAVKIRKGQ AVTLMMDATNMPAVKAIY
 QYMEEIYHRIPSDPSSSKTR QIISTIRTQNLPCQLISRSHYSPIYLSFVMLLAALSW
 QY LTTLSQVTEDYVQTGEH

Sequence
Similarities

Belongs to the phytoene/squalene synthase family.

GENE INFORMATION

Gene Name

FDFT1 farnesyl-diphosphate farnesyltransferase 1 [Homo sapiens]

Official Symbol

FDFT1

Synonyms

FDFT1; farnesyl-diphosphate farnesyltransferase 1; squalene synthase;

Gene ID

2222

mRNA Refseq

NM_004462

Protein Refseq

NP_004453

MIM

184420

Uniprot ID

P37268

**Chromosome
Location**

8p23.1-p22

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Pathway	Cholesterol Biosynthesis, organism-specific biosystem; Cholesterol biosynthesis, organism-specific biosystem; Cholesterol biosynthesis, FPP => cholesterol, organism-specific biosystem; Cholesterol biosynthesis, FPP =>
Function	farnesyl-diphosphate farnesyltransferase activity; oxidoreductase activity; squalene synthase activity; transferase activity, transferring alkyl or aryl (other than methyl) groups;

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