

Recombinant Human FDPS

Cat. No. FDPS-28480TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 320-419 of Human FDPS with N terminal proprietary tag; predicted MW: 36.63 kDa, inclusive of tag. P14324,
Species	Human
Source	Wheat Germ
ProteinLength	100 amino acids
Description	This gene encodes an enzyme that catalyzes the production of geranyl pyrophosphate and farnesyl pyrophosphate from isopentenyl pyrophosphate and dimethylallyl pyrophosphate. The resulting product, farnesyl pyrophosphate, is a key intermediate in cholesterol and sterol biosynthesis, a substrate for protein farnesylation and geranylgeranylation, and a ligand or agonist for certain hormone receptors and growth receptors. Drugs that inhibit this enzyme prevent the post-translational modifications of small GTPases and have been used to treat diseases related to bone resorption. Multiple pseudogenes have been found on chromosomes 1, 7, 14, 15, 21 and X. Multiple transcript variants encoding different isoforms have been found for this gene.
Molecular Weight	36.630kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification

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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 acids	VTGKIGTDIQDNKCSWLVVQCLQRATPEQYQILKENYGQKEAEKVARVKALYEELDL PAVFLQYEEDSYSHIMALIEQYAAPLPPAVFLGLARKIYKRRK
Sequence Similarities	Belongs to the FPP/GGPP synthase family.

GENE INFORMATION

Gene Name	FDPS farnesyl diphosphate synthase [Homo sapiens]
Official Symbol	FDPS
Synonyms	FDPS; farnesyl diphosphate synthase; farnesyl pyrophosphate synthase; farnesyl pyrophosphate synthetase; dimethylallyltranstransferase; geranyltranstransferase;
Gene ID	2224
mRNA Refseq	NM_001135821
Protein Refseq	NP_001129293
MIM	134629
Uniprot ID	P14324
Chromosome Location	1q22

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Pathway	Cholesterol Biosynthesis, organism-specific biosystem; Cholesterol biosynthesis, organism-specific biosystem; HTLV-I infection, organism-specific biosystem; HTLV-I infection, conserved biosystem; Influenza A, organism-specific biosystem;
Function	dimethylallyltranstransferase activity; geranyltranstransferase activity; metal ion binding; transferase activity;

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