

Human FDPS Knockdown Cell Lysate

Cat. No. FDPS-164HKCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	WB-validated FDPS Knockdown HeLa Cell Lysate
Species	Human
Source	HeLa
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.
Form	Cell-Tissue Lysis buffer
Molecular Mass	48 kDa
Notes	Instruction of use: This knockdown cell lysate should be paired with wild-type HeLa cell lysate for use. For Western blotting, we recommend running wild-type and knockdown lysates on the same gel, and loading each well with equal volume and equal amount of total proteins.

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Storage	Store at -20 centigrade for two years.
Concentration	Lot-specific
Shipping	Blue Ice
Components	1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg FDPS KD HeLa cell lysate
Protein Families	Druggable Genome
Protein Pathways	Metabolic pathways, Terpenoid backbone biosynthesis
Lysate QC	RT-qPCR; Western Blotting (WB)

GENE INFORMATION

Gene Name	FDPS farnesyl diphosphate synthase [Homo sapiens (human)]
Official Symbol	FDPS
Synonyms	FDPS; farnesyl diphosphate synthase; farnesyl pyrophosphate synthase; farnesyl pyrophosphate synthetase; dimethylallyltranstransferase; geranyltranstransferase; FPP synthase; FPP synthetase; (2E,6E)-farnesyl diphosphate synthase; farnesyl pyrophosphate synthetase, dimethylallyltranstransferase, geranyltranstransferase; FPS; FPPS;
Gene ID	2224
mRNA Refseq	NM_001135821
Protein Refseq	NP_001129293

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MIM	134629
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UniProt ID	P14324
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