

Recombinant Full Length Human FDPS Protein, GST-tagged

Cat. No. FDPS-4775HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human FDPS full-length ORF (NP_001995.1, 1 a.a. - 419 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	419 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 Mass	74.7 kDa
AA Sequence	MPLSRWLRSVGVFLLPAPYWAPRERWLGSLRRPSLVHGYPVLAWSARCWCQAW TEEPRALCSSLRMNGDQNSDVYAQEKQDFVQHFSQIVRVLTEDEMGHPEIGDAIAR LKEVLEYNAIGGKYNRGLTVVVAFRELVEPRKQDADSLQRAWTVGWCVELLQAFFL

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VADDIMDSSLTRRGQICWYQKPGVGLDAINDANLLEACIYRLKLYCREQPYYLNIE
LFLQSSYQTEIGQTLDLLTAPQGNDLVRFTKRYKSIVKYKTAFYSFYLPAAAMYM
AGIDGEKEHANAKKILLEMGEFFQIQDDYLDLFGDPSVTGKIGTDIQDNKCSWLVVQ
CLQRATPEQYQILKENYGQKEAEKVARVKALYEELDLPVFLQYEEDSYSHIMALIEQ
YAAPLPPAVFLGLARKIYKRRK

Applications

Enzyme-linked Immunoabsorbent Assay
Western Blot (Recombinant protein)
Antibody Production
Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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; FPP synthase; FPP synthetase; (2E,6E)-farnesyl diphosphate synthase; farnesyl pyrophosphate synthetase, dimethylallyltranstransferase, geranyltranstransferase; FPS; FPPS;

Gene ID

2224

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mRNA Refseq	NM_001135821
Protein Refseq	NP_001129293
MIM	134629
UniProt ID	P14324

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