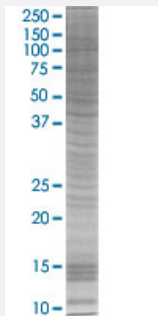


FDPS 293T Cell Transient Overexpression Lysate(Denatured)

Catalog # H00002224-T02

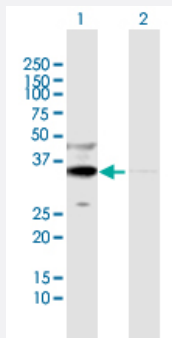
Size 100 uL

Applications



SDS-PAGE Gel

FDPS transfected lysate.



Western Blot

Lane 1: FDPS transfected lysate (48.3 KDa)

Lane 2: Non-transfected lysate.

Specification

Transfected Cell Line 293T

Plasmid pCMV-FDPS full-length

Host Human

Theoretical MW (kDa) 48.3

Quality Control Testing

Transient overexpression cell lysate was tested with Anti-FDPS antibody ([H00002224-D01](#)) by Western Blots.

SDS-PAGE Gel

FDPS transfected lysate.

Western Blot

Lane 1: FDPS transfected lysate (48.3 KDa)

Lane 2: Non-transfected lysate.

Storage Buffer

1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)

Storage Instruction

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

Applications

- Western Blot

Gene Info — FDPS

Entrez GeneID[2224](#)**GeneBank Accession#**[NM_002004.2](#)**Protein Accession#**[NP_001995.1](#)**Gene Name**

FDPS

Gene Alias

FPPS, FPS

Gene Description

farnesyl diphosphate synthase (farnesyl pyrophosphate synthetase, dimethylallyltranstransferase, geranyltranstransferase)

Omim ID[134629](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

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

Other Designations

FPP synthetase|OTTHUMP00000015807|OTTHUMP00000015808|farnesyl diphosphate synthase

Pathway

- [Biosynthesis of alkaloids derived from terpenoid and polyketide](#)

- [Biosynthesis of plant hormones](#)
- [Biosynthesis of terpenoids and steroids](#)
- [Metabolic pathways](#)
- [Terpenoid backbone biosynthesis](#)

Disease

- [Alzheimer disease](#)