

Recombinant Human GGPS1 293 Cell Lysate

Cat. No. GGPS1-5946HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for geranylgeranyl diphosphate synthase 1 (GGPS1), transcript variant 1 is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION
Gene Name

GGPS1 geranylgeranyl diphosphate synthase 1 [Homo sapiens]

Official Symbol

GGPS1

Synonyms

GGPS1; geranylgeranyl diphosphate synthase 1; geranylgeranyl pyrophosphate synthase; GGPPS1; GGPPSase; GGPP synthase; geranyltranstransferase; farnesyltranstransferase; dimethylallyltranstransferase; farnesyl diphosphate synthase; (2E,6E)-farnesyl diphosphate synthase; GGPPS;

Gene ID

9453

mRNA Refseq

NM_004837

Protein Refseq

NP_004828

MIM

606982

UniProt ID

O95749

Chromosome Location

1q43

Pathway

Cholesterol biosynthesis, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem; Terpenoid backbone

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biosynthesis, organism-specific biosystem; Terpenoid backbone biosynthesis, conserved biosystem; geranylgeranyldiphosphate biosynthesis, organism-specific biosystem;

Function

dimethylallyltranstransferase activity; farnesyltranstransferase activity; geranyltranstransferase activity; metal ion binding; transferase activity;

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