

Recombinant Human GGPS1 Protein (His Tag)

Catalog No. PKSH032484

Note: Centrifuge before opening to ensure complete recovery of vial contents.

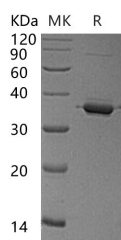
Description

Synonyms	Geranylgeranyl Pyrophosphate Synthase;GGPP Synthase;GGPPSase;(2E,6E)-Farnesyl Diphosphate Synthase;Dimethylallyltranstransferase;Farnesyl Diphosphate Synthase;Farnesyltranstransferase;Geranylgeranyl Diphosphate Synthase;Geranyltranstransferase;GGPS1
Species	Human
Expression Host	E.coli
Sequence	Met 1-Glu300
Accession	O95749
Calculated Molecular Weight	37.0 kDa
Observed molecular weight	35 kDa
Tag	N-His
Bioactivity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.
Formulation	Supplied as a 0.2 µm filtered solution of 20mM Tris-HCl, 150mM NaCl, 20% Glycerol, pH 8.0.
Reconstitution	Not Applicable

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Geranylgeranyl pyrophosphate synthase (GGPS1) is a member of the FPP/GGPP synthase family. GGPS1 is highly

For Research Use Only

expressed in testis, heart and skeletal muscle. GGPS1 is localized in the cytoplasm and has geranylgeranyl diphosphate (GGPP) synthase activity. It catalyzes the trans-addition of the three molecules of IPP onto DMAPP to form geranylgeranyl pyrophosphate, an important precursor of carotenoids and geranylated proteins. Other transcriptional splice variants have been found.