Recombinant human GGPS1 protein

Catalog Number: ATGP0702

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-300aa

UniProt No.
O95749

NCBI Accession No.
NP_001032354

Alternative Names
Geranylgeranyl pyrophosphate synthase isoform A, Geranylgeranyl pyrophosphate synthase isoform A, GGPPS, GGPPS1, GGPP synthetase

PRODUCT SPECIFICATION

Molecular Weight
37 kDa (320aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol

Purity
> 90% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
Geranylgeranyl pyrophosphate synthase isoform A, also known as GGPS1, is a member of the prenyltransferase family. Predominantly expressed in testis, heart and skeletal muscle, GGPS1 localizes to the cytoplasm and catalyzes the formation of geranylgeranyl pyrophosphate, a precursor of geranylgeranylated proteins and carotenoids. GGPS1 is an important molecule responsible for the C20-prenylation of proteins and for the regulation of a nuclear hormone receptor. Recombinant human GGPS1 protein, fused to His-tag at N-terminus,

was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

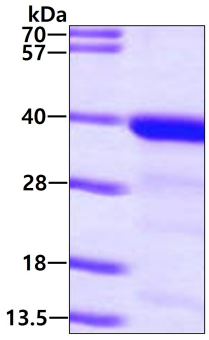
<MGSSHHHHHH SSGLVPRGSH> MEKTQETVQR ILLEPYKYLL QLPGKQVRTK LSQAFNHWLK VPEDKLQIII EVTEMLHNAS LLIDDIEDNS KLRRGFPVAH SIYGIPSVIN SANYVYFLGL EKVLTLDHPD AVKLFTRQLL ELHQGQGLDI YWRDNYTCPT EEEYKAMVLQ KTGGLFGLAV GLMQLFSDYK EDLKPLLNTL GLFFQIRDDY ANLHSKEYSE NKSFCEDLTE GKFSFPTIHA IWSRPESTQV QNILRQRTEN IDIKKYCVHY LEDVGSFEYT RNTLKELEAK AYKQIDARGG NPELVALVKH LSKMFKEENE

General References

Okada K., et al. (2000) Plant Physiol. 122:1045-1056.
Kainou T., et al. (1999) Biochem Biophys. 1437:330-340.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.