

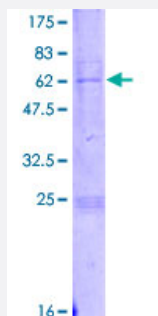
Full-Length

PDSS1 (Human) Recombinant Protein (P01)

Catalog # H00023590-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human PDSS1 full-length ORF (AAH63635.1, 1 a.a. - 306 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MASRWWRWRRGCSWKPAARSPGPGSPGRAVPLGPSAAAEVRAQVHRRKGLDLSQIPYINLVK
HLTSACPNVCRISRFHHTTPDSKTHSGEKYTDPFKLGWRDLKGLYEDIRKELLISTSELKEMSEYYF
DGKGKAFRPIVALMARACNIHHNNSRHVQASQRAIALAEMIHTASLVHDDVIDDASSRRGKHTVN
KIWGEKKAVLAGDLILSAASIALARIGNTTVISILTQVIEDLVRGEFLQLGSKENENERFAHYLEKTFK
KTASLIANSCKAVFPRNECYDHATVQFAWRCRQSSTVCTTE

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

60.7

Interspecies Antigen Sequence

Mouse (76); Rat (77)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

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

Storage Instruction

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

Note

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

Applications

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

Gene Info — PDSS1

Entrez GeneID[23590](#)**GeneBank Accession#**[BC063635.1](#)**Protein Accession#**[AAH63635.1](#)**Gene Name**

PDSS1

Gene Alias

COQ1, DPS, MGC70953, RP13-16H11.3, SPS, TPRT, TPT, hDPS1

Gene Description

prenyl (decaprenyl) diphosphate synthase, subunit 1

Omim ID[607426 607429](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

The protein encoded by this gene is an enzyme that elongates the prenyl side-chain of coenzyme Q, or ubiquinone, one of the key elements in the respiratory chain. The gene product catalyzes the formation of all trans-polyprenyl pyrophosphates from isopentyl diphosphate in the assembly of polyprenoid side chains, the first step in coenzyme Q biosynthesis. The protein may be peripherally associated with the inner mitochondrial membrane, though no transit peptide has been definitively identified to date. Defects in this gene are a cause of coenzyme Q10 deficiency. [provided by RefSeq]

Other Designations

OTTHUMP00000019346|coenzyme Q1 homolog|polyprenyl pyrophosphate synthetase|prenyl diphosphate synthase, subunit 1|subunit 1 of decaprenyl diphosphate synthase|trans-prenyltransferase (TPT)

Pathway

- [Terpenoid backbone biosynthesis](#)

Disease

- [Genetic Predisposition to Disease](#)
- [Kidney Failure](#)
- [Lymphoma](#)
- [Tobacco Use Disorder](#)