

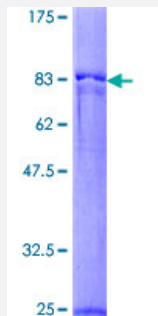
Full-Length

PPOX (Human) Recombinant Protein (P01)

Catalog # H00005498-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human PPOX full-length ORF (NP_000300.1, 1 a.a. - 477 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MGRTVVVLGGGISGLAASYHLSRAPCPPKVVLVESSERLGGWIRSVRGPNGAIFELGPRGIRPAG
ALGARTLLLVLSELGLDSEVLPVRGDHPAAQNRFLYGGALHALPTGLRGLLRPSPFFSKPLFWA
GLRELTKPRGKEPDETVHSFAQRRLGPEVASLAMDSLRCGVFAGNSRELSIRSCFSLFQAEQT
HRSILLGLLLGAGRTPQPDALIRQALAEERWSQWSLRGGLEMLPQALETHLTSRGVSVLRGQPVC
GLSLQAEGRWKVSLRDSSLEADHVISAIPASVLSSELLPAEAAPLARALSAITAVSVAVVNLQYQGA
HLPVQGFGLVPSSDPGLVGMYSVAFFPEQDGSPPGLRVTVMLGGSWLQTLASGCVLSQE
LFQQRQAQAAATQLGLKEMPSHCLVHLHKNCIPQYTLGHWQKLESARQFLTAHRLPLTLGASYE
GVAVNDICIESGRQAAVSVLGTEPNS

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

77.2

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 — PPOX

Entrez GeneID[5498](#)**GeneBank Accession#**[NM_000309.2](#)**Protein Accession#**[NP_000300.1](#)**Gene Name**

PPOX

Gene Alias

MGC8485, PPO, V290M, VP

Gene Description

protoporphyrinogen oxidase

Omim ID[176200 600923](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

This gene encodes the penultimate enzyme of heme biosynthesis, which catalyzes the 6-electron oxidation of protoporphyrinogen IX to form protoporphyrin IX. Mutations in this gene cause variegate porphyria, an autosomal dominant disorder of heme metabolism resulting from a deficiency in protoporphyrinogen oxidase, an enzyme located on the inner mitochondrial membrane. Alternatively spliced transcript variants encoding the same protein have been identified. [provided by RefSeq]

Other Designations

OTTHUMP00000032237|OTTHUMP00000032238|variegate porphyria

Pathway

- [Metabolic pathways](#)
- [Porphyrin and chlorophyll metabolism](#)