

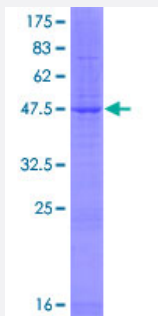
Full-Length

## PEMT (Human) Recombinant Protein (P01)

Catalog # H00010400-P01

Size 25 ug, 10 ug

### Applications



### Specification

|                                      |                                                                                                                                                                                                                                                        |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b>           | Human PEMT full-length ORF ( NP_680477.1, 1 a.a. - 236 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                           |
| <b>Sequence</b>                      | MKRSGNPGAEVTNSSVAGPDCCGGLGNIDFRQADFCVMTRLLGYVDPLDPSFVAAVITITFNPLY<br>WNVVARWEHKTRKLSRAFGSPYLACYSLSVTILLNFLRSHCFTQAMLSQPRMESLDTPAAYSLG<br>LALLGLGVVLVLSSFFALGFAGTFLGDYFGILKEARVTVFPFNILDNPMYWGSTANYLGWAIMHAS<br>PTGLLLTVLVALTYVALLYEEPFTAENYRQKASGSHKRS |
| <b>Host</b>                          | Wheat Germ (in vitro)                                                                                                                                                                                                                                  |
| <b>Theoretical MW (kDa)</b>          | 52.3                                                                                                                                                                                                                                                   |
| <b>Interspecies Antigen Sequence</b> | Mouse (80); Rat (80)                                                                                                                                                                                                                                   |
| <b>Preparation Method</b>            | <a href="#">in vitro wheat germ expression system</a>                                                                                                                                                                                                  |
| <b>Purification</b>                  | Glutathione Sepharose 4 Fast Flow                                                                                                                                                                                                                      |
| <b>Quality Control Testing</b>       | 12.5% SDS-PAGE Stained with Coomassie Blue.                                                                                                                                                                                                            |
| <b>Storage Buffer</b>                | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                                                                                                                                                               |
| <b>Storage Instruction</b>           | 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 — PEMT

Entrez GeneID [10400](#)

GeneBank Accession# [NM\\_148172.1](#)

Protein Accession# [NP\\_680477.1](#)

Gene Name PEMT

Gene Alias MGC2483, PEAMT, PEMPT, PEMT2, PNMT

Gene Description phosphatidylethanolamine N-methyltransferase

Omim ID [602391](#)

Gene Ontology [Hyperlink](#)

**Gene Summary** This gene encodes an enzyme which converts phosphatidylethanolamine to phosphatidylcholine by sequential methylation in the liver. The protein localizes to the endoplasmic reticulum and mitochondria-associated membranes. The gene is within the Smith-Magenis syndrome region on chromosome 17. Alternate splicing of this gene results in three transcript variants encoding two different isoforms. [provided by RefSeq]

**Other Designations** OTTHUMP00000065536|OTTHUMP00000065537

## Pathway

- [Glycerophospholipid metabolism](#)

- [Metabolic pathways](#)

## Disease

- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Cardiovascular Diseases](#)
- [Choline Deficiency](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Coronary Artery Disease](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Fatty Liver](#)
- [Folic Acid Deficiency](#)
- [Genetic Predisposition to Disease](#)
- [Metabolic Syndrome X](#)
- [Obesity](#)
- [Schizophrenia](#)
- [Tobacco Use Disorder](#)