

# Recombinant Human PCYT1A

**Cat. No.** PCYT1A-29484TH    **Lot. No.** (See product label)

## SPECIFICATION

|                                 |                                                                                                                                                                                                                                                                                                                  |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>         | Recombinant full length Human PCYT1A with N terminal proprietary tag; Predicted MW 66.44 kDa.                                                                                                                                                                                                                    |
| <b>Species</b>                  | Human                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>                   | Wheat Germ                                                                                                                                                                                                                                                                                                       |
| <b>ProteinLength</b>            | 367 amino acids                                                                                                                                                                                                                                                                                                  |
| <b>Molecular Weight</b>         | 66.440kDa inclusive of tags                                                                                                                                                                                                                                                                                      |
| <b>Form</b>                     | Liquid                                                                                                                                                                                                                                                                                                           |
| <b>Purity</b>                   | Proprietary Purification                                                                                                                                                                                                                                                                                         |
| <b>Storage buffer</b>           | pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl                                                                                                                                                                                                                                                            |
| <b>Storage</b>                  | Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.                                                                                                                                                                                                                        |
| <b>Sequences of amino acids</b> | MDAQCSAKVNARKRRKEAPGPNNGATEEDGVPSKVQRCAVG LRQPAPFSDEIEVDF<br>SKPYVRVTMEEASRGTPCERPVRVY ADGIFDLFHSGHARALMQAKNLPNTYLIVG<br>VCSDELTHN FKGFTVMNENERYDAVQHCRYVDEVVRNAPWTLTPEFLAE HRIDFV<br>AHDDIPYSSAGSDDVYKHIKEAGMFAPTQRTEGI STSDIITRIVRDYDVYARRNLQRG<br>YTAKELNVSFINEKKY HLQERVDKVKKKVKDVEEKSKEFVQKVEEKSIDLIQKWEE K |

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SREFIGSFLEMFGPEGALKHMLKEGKGRMLQAISPKQSP SSSPTRERSPPSPSFRWP  
FSGKTSPPCSPANLSRHKAAAYD ISEDEED

**Sequence**  
**Similarities** Belongs to the cytidylyltransferase family.

## GENE INFORMATION

**Gene Name** PCYT1A phosphate cytidylyltransferase 1, choline, alpha [ Homo sapiens ]

**Official Symbol** PCYT1A

**Synonyms** PCYT1A; phosphate cytidylyltransferase 1, choline, alpha; PCYT1, phosphate cytidylyltransferase 1, choline, alpha isoform; choline-phosphate cytidylyltransferase A; CT; CTPCT; phosphate cytidylyltransferase 1; choline; alpha isoform;

**Gene ID** 5130

**mRNA Refseq** NM\_005017

**Protein Refseq** NP\_005008

**MIM** 123695

**Uniprot ID** P49585

**Chromosome Location** 3q29

**Pathway** Acetylcholine Synthesis, organism-specific biosystem; Glycerophospholipid metabolism, organism-specific biosystem; Glycerophospholipid metabolism, conserved biosystem; Metabolic pathways, organism-specific biosystem;

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Phosphatidylcholine (PC) biosynthesis, choline =>

**Function**

choline-phosphate cytidyltransferase activity; lipid binding; nucleotidyltransferase activity; transferase activity;

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