

# Recombinant human PCYT2 protein

Catalog Number: ATGP1348

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-389aa

### UniProt No.

Q99447

### NCBI Accession No.

NP\_002852

### Alternative Names

Ethanolamine-phosphate cytidyltransferase isoform 2, CTP:phosphoethanolamine cytidyltransferase, ET, Ethanolamine-phosphate cytidyltransferase, Phosphorylethanolamine transferase

## PRODUCT SPECIFICATION

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### Molecular Weight

45.9 kDa (409aa) confirmed by MALDI-TOF

### Concentration

0.25mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT, 0.1mM PMSF

### 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

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### Description

PCYT2 is an enzyme that catalyzes the formation of CDP-ethanolamine from CTP and phosphoethanolamine in the Kennedy pathway of phospholipid synthesis. Alternative splicing results in multiple transcript variants. Recombinant human PCYT2 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

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### Amino acid Sequence

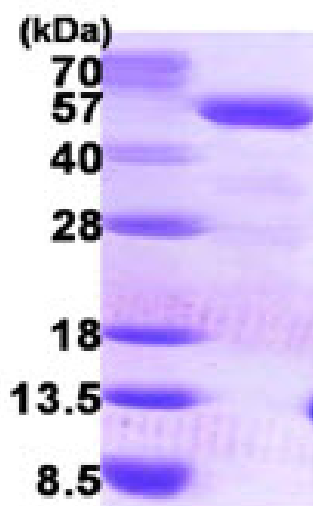
MGSSHHHHHH SSSLVPRGSH MIRNGRGAAG GAEQPGPGGR RAVRVWCDGC YDMVHYGHSN QLRQARAMGD  
YLIVGVHTDE EIAKHKGPPV FTQEERYKMV QAIKWVDEVV PAAPYVTTLT TLDKYNCDFC VHGN DITLTV DGRDTYEEVK  
QAGRYRECKR TQGVSTTDLV GRMLLVTKAH HSSQEMSSEY REYADSFSGK PGGRNPWTGV SQFLQTSQKI IQFASGKEPQ  
PGETVIYVAG AFDLFHIGHV DFLEKVVHRLA ERPYIIAGLH FDQEVNHYKG KNYPIMNLHE RTLSVLACRY VSEVVIGAPY  
AVTAELLSHF KVDLVCHGKT EIIPDRDGS D PYQEPKRRGI FRQIDSGSNL TTDLIVQR II TNRLEYEAR N QKKEAKELAF  
LEAARQAAAQ PLGERDGD F

### General References

Nakashima A. et al. (1997) J. Biol. Chem. 272: 9567-9572.  
Bakovic M. et al. (2007) Biochem. Cell Biol. 85:283-300.

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)