

Recombinant Human Phosphate Cytidyltransferase 2, Ethanolamine, His-tagged

Cat. No. PCYT2-1564H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PCYT2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
Species	Human
Source	E.coli
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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT, 0.1mM PMSF.
Molecular Weight	45.9 kDa (409aa), confirmed by MALDI-TOF.
Purity	>90% by SDS-PAGE
Concentration	0.25 mg/ml (determined by Bradford assay)
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MIRNGRGAAG GAEQPGPGGR RAVRVWCDGC YDMVHYGHSN QLRQARAMGD YLIVGVHTDE EIAKHKGPPVFTQEERYKMV QAIKWVDEVV PAAPYVTTLT TLDKYNCFDC VHGNITLTV DGRDTEEVK QAGRYRECKR TQGVSTTDLV GRMLLVTKAHHSSQEMSSEY REYADSFQKC

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PGGRNPWTGV SQFLQTSQKI IQFASGKEPQ PGETVIYVAG AFDLFHIGHV
 DFLEKVHRLA ERPYIIAGLHFDQEVNHYKG KNYPIMNLHE RTLSVLACRY
 VSEVVIGAPY AVTAELLSHF KVDLVCHGKT EIIPDRDGSD PYQEPKRRGI
 FRQIDSGSNLTTDLIVQRRI TNRLEYEARN QKKEAKELAF LEAARQQAAQ
 PLGERDGDGF

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Pathways

Glycerophospholipid metabolism; Metabolic pathways; Phosphatidylethanolamine (PE) biosynthesis

GENE INFORMATION

Gene Name

PCYT2 phosphate cytidyltransferase 2, ethanolamine [Homo sapiens]

Official Symbol

PCYT2

Synonyms

PCYT2; phosphate cytidyltransferase 2, ethanolamine; ET; ethanolamine-phosphate cytidyltransferase; phosphorylethanolaminetransferase; CTP:phosphoethanolaminecytidyltransferase; EC 2.7.7.14; EC 2.7.7

Gene ID

5833

mRNA Refseq

NM_001184917

Protein Refseq

NP_001171846

MIM

602679

UniProt ID

Q99447

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Chromosome Location	17q25.3
Function	ethanolamine-phosphate cytidyltransferase activity; nucleotidyltransferase activity; transferase activity