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Recombinant human PCYT2 protein

Catalog Number: ATGP1348

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-389aa

UniProt No.
Q99447

NCBI Accession No.
NP_002852

Alternative Names
Ethanolamine-phosphate cytidylyltransferase isoform 2, CTP:phosphoethanolamine cytidylyltransferase, ET, Ethanolamine-phosphate cytidylyltransferase, Phosphorylethanolamine transferase

PRODUCT SPECIFICATION

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

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

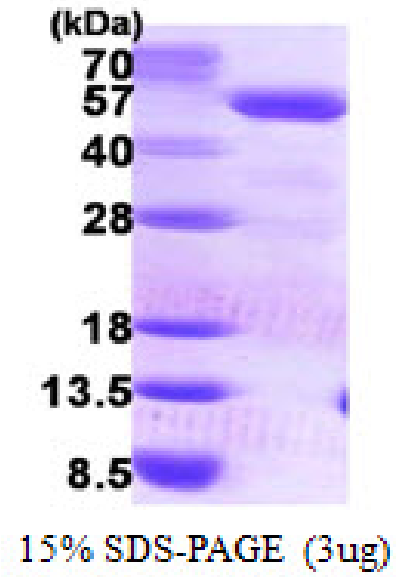
MGSSHHHHHH SSGLVPRGSH MIRNGRGAAG GAEQPGPGGR RAVRVWCDGC YDMVHYGHSN QLRQARAMGD YLIVGVHTDE EIAKHKGPPV FTQEERYKMV QAIKWVDEVV PAAPYVTTLE TLDKYNCDFC VHGNDITLTV DGRDTYEEVK QAGRYRECKR TQGVSTTDLV GRMLLVTKAH HSSQEMSSEY REYADSFGKC PGGRNPWTGV SQFLQTSQKI IQFASGKEPQ PGETVIYVAG AFDLFHIGHV DFLEKVHRLA ERPYIIAGLH FDQEVNHYKG KNYPIMNLHE RTLSVLACRY VSEVVIGAPY AVTAELLSHF KVDLVCHGKT EIIPDRDGSD PYQEPKRRGI FRQIDSGSNL TTDLIVQRII TNRLEYEARN QKKEAKELAF LEAARQQAAQ PLGERDGDF

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



15% SDS-PAGE (3ug)

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