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**Product Data Sheet**


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Product Name: PCYT2 Human  
 Cat. No.: GP22054  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	MEA-phosphate cytidyltransferase; CTP:phospho MEA cytidyltransferase; Phosphoryl MEA transferase; PCYT2; ET.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MIRNGRGAAG GAEQPGPGGR RAVRVWCDGC YDMVHYGHSN QLRQARAMGD YLIVGVHTDE EIAKHKGPPV FTQEERYKMV QAIKWVDEVV PAAPYVTTLTLDKYNCFD VHGNDITLTV DGRDTYEEVK QAGRYRECKR TQGVSTTDLV GRMLLVTKAH HSSQEMSSEY REYADSFQK PGGRNPWTGV SQFLQTSQKI IQFASGKEPQ PGETVIYVAG AFDLFHIGHV DFLEKVHRLA ERPYIIAGLH FDQEVNHYKG KNYPIMNLHE RTLSVLACRY VSEVVIGAPY AVTAELLSHF KVDLVCHGKT EIIPDRDGSD PYQEPKRRGI FRQIDSGSNL TTDLIVQRRI TNRLEYEARN QKKEAKELAF LEAARQQAAQ PLGERDGDF.		
Formulation	The PCYT2 solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 20% glycerol, 0.1M NaCl, 1mM DTT and 0.1mM PMSF.		

**Introduction**

PCYT2 is a member of the cytidyltransferase family. PCYT2 is an enzyme which catalyzes the formation of CDP-MEA from CTP and phospho MEA in the Kennedy pathway of phospholipid synthesis. PCYT2 has the strongest expression in the liver, heart, and skeletal muscle.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Background**

**Caution: Product has not been fully validated for medical applications. For research use only.**

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PCYT2 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 409 amino acids (1-389) and having a molecular mass of 45.9kDa. PCYT2 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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