Recombinant Human CTPS, His-tagged

Cat. No. CTPS-28031TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 322-591 of Human CTP synthase with N terminal His tag; MWt ~36 kDa,
Species	Human
Source	E.coli
ProteinLength	269 amino acids
Description	The catalytic conversion of UTP to CTP is accomplished by the enzyme cytidine-5-prime-triphosphate synthetase. The enzyme is important in the biosynthesis of phospholipids and nucleic acids, and plays a key role in cell growth, development, and tumorigenesis.
Conjugation	HIS
Form	Lyophilised:Reconstitution with 89 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	(Amino acid sequence (Sequence determined by 5 Sequencing))EHSALAINHKLEIKY IDSADLEPITS QEEPVRYHEAWQKLCSAHGVLVPGGFGVRGTEGKIQAI AWARNQK

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	KPFLGVCLGMQLAVVEFSRNVLGWQDANSTEFD PTTSHPVVVDMPEHNPGQMGG TMRLGKRRTLFQTKNSV MRKLYGDADYLEERHRHRFEVNPVWKKCLEEQGLKFVG QDVEGERMEIVELEDHPFFVGVQYHPEFLSRPIKPSPPYF GLLLASVGRLSHYLQKG CRLSPRDTYSDRSGSSSPDSE ITELKFPSINHD

GENE INFORMATION

Gene Name	CTPS CTP synthase [Homo sapiens]
Official Symbol	CTPS
Synonyms	CTPS; CTP synthase; CTP synthase 1;
Gene ID	1503
mRNA Refseq	NM_001905
Protein Refseq	NP_001896
MIM	123860
Uniprot ID	P17812
Chromosome Location	1p34.1
Pathway	Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of nucleotides, organism-specific biosystem; Pyrimidine metabolism, organism-specific biosystem; Pyrimidine metabolism, conserved biosystem;

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Function	ATP binding; CTP synthase activity; CTP synthase activity; CTP synthase activity; ligase activity;

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