

Product datasheet for PH302434

CTP synthase (CTPS1) (NM_001905) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	CTPS MS Standard C13 and N15-labeled recombinant protein (NP_001896)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC202434
Predicted MW:	66.7 kDa
Protein Sequence:	>RC202434 protein sequence Red=Cloning site Green=Tags(s)

MKYILVTGGVISIGKGIASSVGTILKSCGLHVTSIKIDPYINIDAGTFSPYEHGEVFLDDGGEVDLD
LGNYERFLDIRLTKDNNLTTGKIYQYVINKERKGDYLGKTVQVVPHITDAIQEWVMRQALIPVDEGLEP
QVCVIELGGTVGDIESMPFIEAFRQFQFKVKRENF CNIHVSLVPQPSSTGEQKTKPTQNSVRELRLGLS
PDLVVCRCSNPLDTSVKEKISMFCHEPEQVICVHDVSSIYRVPLLLLEEQGVVDYFLRRLDLPIERQPRK
MLMKWKEMADRYDRLLETCSIALVGKYTKFSDSYASVIKALEHSALAINHKLEIKYIDSADLEPITSQEE
PVRYHEAWQKLCSAHGVLPGGFGVRGTEGKIQAIAWARNQKKPFLGVCLGMQLAVVEFSRNVLQWQDAN
STFDPDPTTSHPVVVDMPHNPQMGGMRLGKRRTLFQTKNSVMRKL YGDADYLEERHRHREFEVNPVWKK
CLEEQGLKFKVQDVEGERMEIVELEDHPFFVGVQYHPEFLSRPIKSPPPYFGLLLASVGRLSHYLQKGC
LSPRDYSDRIGSSSPDSEITELKFPSINHD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_001896
RefSeq Size:	3248
RefSeq ORF:	1773



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Synonyms: CTPS; GATD5; GATD5A; IMD24

Locus ID: 1503

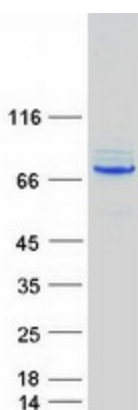
UniProt ID: [P17812](#)

Cytogenetics: 1p34.2

Summary: This gene encodes an enzyme responsible for the catalytic conversion of UTP (uridine triphosphate) to CTP (cytidine triphosphate). This reaction is an important step in the biosynthesis of phospholipids and nucleic acids. Activity of this protein is important in the immune system, and loss of function of this gene has been associated with immunodeficiency. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014]

Protein Pathways: Metabolic pathways, Pyrimidine metabolism

Product images:



Coomassie blue staining of purified CTPS1 protein (Cat# [TP302434]). The protein was produced from HEK293T cells transfected with CTPS1 cDNA clone (Cat# [RC202434]) using MegaTran 2.0 (Cat# [TT210002]).