

Product datasheet for TP302434

CTP synthase (CTPS1) (NM_001905) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human CTP synthase (CTPS), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA	>RC202434 protein sequence
Clone or AA Sequence:	Red=Cloning site Green=Tags(s)

MKYILVTGGVISGIGKGIASSVGTILKSCGLHVTSIKIDPYINIDAGTFSPYEHGEVFLDDGGGEVDLD
LGNYERFLDIRLTKDNNLTTGKIYQYVINKERKGDYLGKTVQVPHITDAIQEWMRQALIPVDEDGLEP
QVCVIELGGTVGDIESMPFIEAFRQFQFKVKRENFNCNIHVSLVPQPSSTGEQTKPTQNSVRELRLGLS
PDLVVCRCNSPLDTSVKEKISMFCHVEPEQVICVHDVSSIYRVPLLEEQGVVDYFLRRDLPIERQPRK
MLMKWKEMADRYDRLLETCSIALVGKYTKFSDSYASVIKALEHSALAINHKLEIKYIDSADLEPITSQEE
PVRYHEAWQKLCSAHGVLVPGGFGVRGTEGKIQAIAWARNQKKPFLGVCLGMQLAVVEFSRNVLGWQDAN
STEFDPTTSHPVVDMPEHNPGQMGGTMLRGLKRRTLFQTKNSVMRKLYGDADYLEERHRHRFEVNPVWKK
CLEEQGLKFBVGDVEGERMEIVELEDHPFFVGVQYHPEFLSRPIKSPPPYFGLLLASVGRSLSHYLQKGC
LSPRDTYSDRIGSSSPDSEITELKFPSINH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

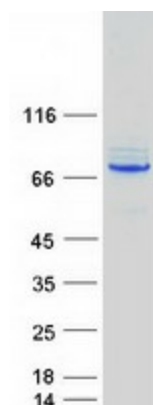
Tag:	C-Myc/DDK
Predicted MW:	66.5 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_001896
Locus ID:	1503
UniProt ID:	P17812
RefSeq Size:	3248
Cytogenetics:	1p34.2
RefSeq ORF:	1773
Synonyms:	CTPS; GATD5; GATD5A; IMD24
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]).