

Recombinant Human CTPS1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CTPS1-1137H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CTPS MS Standard C13 and N15-labeled recombinant protein (NP_001896) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	66.7 kDa
AA Sequence	MKYILVTGGVISGIGKGIIASSVGILKSCGLHVTSIKIDPYINIDAGTFSPYEHGEVFVL DDGGEVDLDLGNRYERFLDIRLTKDNNLTGKIYQYVINKERKGDYLGKTVQVPHITD AIQEWVMRQALIPVDEEDGLEPQVCVIELGGTVGDIESMPFIEAFRQFQFKVKRENFC NIHVSLVPQPSSTGEQKTKPTQNSVRELRLGLLSPDLVVCRCNSNPLDTSVKEKISMF CHVEPEQVICVHDVSSIYRVPLLLLEEQGVVDYFLRRLDLPIERQPRKMLMKWKEMAD RYDRLLLETCSIALVGKYTKFSDSYASVIKALEHSALAINHKLEIKYIDSADLEPITSQEE PVRYHEAWQKLCSAHGVLVPGGFGVRGTEGKIQAIAWARNQKKPFLGVCLGMQLA

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VVEFSRNVLGWQDANSTEFDPPTTSHPVVVDMPENPGQMGGTMRLGKRRTLFQT
KNSVMRKLYGDADYLEERHRHRFEVNPVWKKCLEEQGLKFVGGQDVEGERMEIVEL
EDHPFFVGVQYHPEFLSRPIKPSPPYFGLLLASVGRLSHYLQKGCRLSPRDTYSERI
GSSSPDSEITELKFPSINHDTTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name CTPS1 CTP synthase 1 [Homo sapiens (human)]

Official Symbol CTPS1

Synonyms CTPS1; CTP synthase 1; CTPS; GATD5; IMD24; CTP synthase 1; CTP synthetase 1; UTP--ammonia ligase 1; cytidine 5'-triphosphate synthetase; cytidine 5-prime triphosphate synthetase; EC 6.3.4.2

Gene ID 1503

mRNA Refseq NM_001905

Protein Refseq NP_001896

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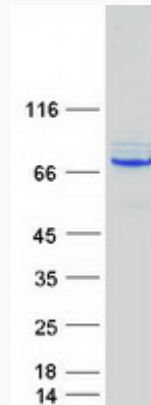
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MIM 123860

UniProt ID P17812

SDS-PAGE



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