

Recombinant Full Length Human CTPS1 Protein, C-Flag-tagged

Cat. No. CTPS1-478HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human CTPS1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	66.5 kDa
AA Sequence	MKYILVTGGVISGIGKGIIASSVGITLKSCGLHVTSIKIDPYINIDAGTFSPYEHGEVFL DDGGEVDLD LGNYERFLDIRLTKDNNLTGKIYQYVINKERKGDYLGKTVQVPHIT DAIQEWVMRQALIPVDEDGLEP QVCVIELGGTVGDIESMPFIEAFRQFQFKVKRENF CNIHVSLVPQPSSTGEQKTKPTQNSVRELRLGLS PDLVVCRCNSNPLDTSVKEKIS MFCHVEPEQVICVHDVSSIYRVPLLLLEEQGVVDYFLRRDLPIERQPRK MLMKWKE MADRYDRLLLETCSIALVGKYTKFSDSYASVIKALEHSALAINHKLEIKYIDSADLEPITS

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QEE PVRYHEAWQKLCSAHGVLVPGGFGVRGTEGKIQAIAWARNQKKPFLGVCLG
 MQLAVVEFSRNVLGWQDAN STEFDPTTSHPVVDMPEHNPGQMGGTMRLGKRR
 TLFQTKNSVMRKLYGDADYLEERHRHRFEVNPVWKK CLEEQGLKFVGQDVEGER
 MEIVELEDHPFFVGVQYHPEFLSRPIKSPPYFGLLLASVGRLSHYLQKGCGR
 LSPRDTYSDRIGSSSPDSEITELKFPSINHDTTRTRPLEQKLISEEDLAANDILDYKDDD
 DKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Pathways	Metabolic pathways, Pyrimidine metabolism
Full Length	Full L.

GENE INFORMATION

Gene Name	CTPS1 CTP synthase 1 [Homo sapiens (human)]
Official Symbol	CTPS1
Synonyms	CTPS; GATD5; IMD24; GATD5A

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Gene ID	1503
mRNA Refseq	NM_001905.4
Protein Refseq	NP_001896.2
MIM	123860
UniProt ID	P17812

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