

Recombinant Full Length Human CTPS1 Protein, GST-tagged

Cat. No. CTPS1-2321HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CTPS full-length ORF (AAH09408, 1 a.a. - 591 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	591 amino acids
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. [provided by RefSeq, Jul 2014]
Molecular Mass	90.75 kDa
AA Sequence	MKYILVTGGVISGIGKGIIASSVGITLKSCGLHVTSIKIDPYINIDAGTFSPYEHGEVFVL DDGGEVDLDLGNYSERFLDIRLTKDNNLTGKIYQYVINKERKGDYLGKTVQVPHITD AIQEWVMRQALIPVDEEDGLEPQVCVIELGGTVGDIESMPFIEAFRQFQFKVKRENFC NIHVSLVPQPSSTGEQKTKPTQNSVRELRLGLSPDLVVCRCNPLDTSVKEKISMF CHVEPEQVICVHDVSSIYRVPLLLLEEQGVVDYFLRRDLPIERQPRKMLMKWKEMAD RYDRLLLETCSIALVGKYTKFSDSYASVIKALEHSALAINHKLEIKYIDSADLEPITSQEE PVRVYHEAWQKLCSAHGVLVPGGFGVRGTEGKIQAIAWARNQKKPFLGVCLGMQLA

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VVEFSRNVLGWQDANSTEFDPPTTSHPVVVDMPENPGQMGGTMRLGKRRTLFQT
KNSVMRKLYGDADYLEERHRHRFEVNPVWKKCLEEQGLKFVGQDVEGERMEIVEL
EDHPFFVGVQYHPEFLSRPIKPSPPYFGLLLASVGRLSHYLQKGCRLSPRDTYSERI
GSSSPDSEITELKFPSINHD

Applications

Enzyme-linked Immunoabsorbent Assay
Western Blot (Recombinant protein)
Antibody Production
Protein Array

Notes Best use within three months from the date of receipt of this protein.

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

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

Official Symbol CTPS1

Synonyms CTPS1; CTP synthase 1; CTPS; CTP synthase; CTP synthase , CTPS; CTP synthase 1; CTP synthetase 1; UTP--ammonia ligase 1; cytidine 5-triphosphate synthetase; cytidine 5-prime triphosphate synthetase;

Gene ID 1503

mRNA Refseq NM_001905

Protein Refseq NP_001896

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MIM	123860
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UniProt ID	P17812
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