

Recombinant Full Length Human CTPS2 Protein, GST-tagged

Cat. No. CTPS2-2322HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CTPS2 full-length ORF (AAH34986, 1 a.a. - 586 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	586 amino acids
Description	The protein encoded by this gene catalyzes the formation of CTP from UTP with the concomitant deamination of glutamine to glutamate. This protein is the rate-limiting enzyme in the synthesis of cytosine nucleotides, which play an important role in various metabolic processes and provide the precursors necessary for the synthesis of RNA and DNA. Cancer cells that exhibit increased cell proliferation also exhibit an increased activity of this encoded protein. Thus, this protein is an attractive target for selective chemotherapy. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2013]
Molecular Mass	90.2 kDa
AA Sequence	MKYILVTGGVISGIGKGIIASSIGTILKSCGLRVTAIKIDPYINIDAGTFSPYEHGEVFLN DGGEVDLDLGNYSERFLDINLYKDNNITTGKIYQHVINKERRGDYLGKTVQVVPHTDA VQEWVMNQAKVPVDGNKEEPQICVIELGGTIGDIEGMPFVEAFRQFQFKAKRENFC NIHVSLVPQLSATGEQKTKPTQNSVRALRGLGLSPDLIVCRSSTPIEMAVKEKISMFC HVNPEQVICIHDVSSTYRVPVLLLEEQSIVKYFKERLHLPIGDSASNLLFKWRNMADRY

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ERLQKICSIALVGKYTKLRDCYASVFKALEHSALAINHKLNLMYIDSIDLEKITETEDPV
 KFHEAWQKLCKADGILVPGGFGIRGTLGKLQAISWARTKKIPFLGVCLGMQLAVIEFA
 RNCLNLKDADSTEFRPNAPVPLVIDMPEHNPGNLGGTMRLGIRRTVFKTENSILRKL
 YGDVPFIEERHRHRFEVNPNIKQFEQNDLSFVGQDVGDRMEIIELANHPYFVGVSQ
 FHPEFSSRPMKPSPPYLGLLLAATGNLNAYLQQGCKLSSSDRYSDASDDSFSEPRIA
 ELEIS

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

CTPS2 CTP synthase II [Homo sapiens]

Official Symbol

CTPS2

Synonyms

CTPS2; CTP synthase II; CTP synthase 2; CTP synthetase 2; UTP-ammonia ligase;
 CTP synthetase type 2; UTP--ammonia ligase 2; CTP synthetase isoform; cytidine 5-
 triphosphate synthetase 2; FLJ43358; MGC32997; DKFZp686C17207;

Gene ID

56474

mRNA Refseq

NM_001144002

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Protein Refseq	NP_001137474
MIM	300380
UniProt ID	Q9NRF8

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