

Recombinant Human CTPS2 Protein, GST-tagged

Cat. No. CTPS2-2093H 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 Wheat Germ

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

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MKYILVTGGVISGIGKGIASSIGTILKSCGLRVTAIKIDPYINIDAGTFSPYEHGEVFLN
DGGEVDLDLGNYSERFLDINLYKDNNITGKIYQHVINKERRGDYLGKTVQVPHITDA
VQEWVMNQAKVPVDGNKEEPQICVIELGGTIGDIEGMPFVEAFRQFQFKAKRENFC
NIHVSLVPQLSATGEQKTKPTQNSVRALRGLGLSPDLIVCRSSTPIEMAVKEKISMFC
HVNPEQVICIHDVSSTYRVPVLLSEEQSIVKYFKERLHLPIGDSASNLLFKWRNMADRY
ERLQKICSIALVGKYTKLRDCYASVFKALEHSALAINHKLNLMYIDSIDLEKITETEDPV
    
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KFHEAWQKLCKADGILVPGGFGIRGTLGKLQAISWARTKKIPFLGVCLGMQLAVIEFA
 RNCLNLKDADSTEFRPNAPVPLVIDMPEHNPGNLGGTMRLGIRRTVFKTENSILRKL
 YGDVPFIEERHRHRFEVNPNIKQFEQNDLSFVGQDVGDRMEIILANHPYFVGVQ
 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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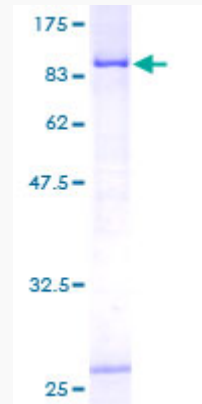
Protein Refseq NP_001137474

MIM 300380

UniProt ID Q9NRF8

Quality Control

Testing:



12.5% SDS-PAGE Stained with Coomassie Blue.

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