

Recombinant Human CTPS2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CTPS2-6360H Lot. No. (See product label)

SPECIFICATION

Product Overview

CTPS2 MS Standard C13 and N15-labeled recombinant protein (NP_787055) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

Species

Human

Source

HEK293

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.

Molecular Mass

65.7 kDa

AA Sequence

MKYILVTGGVISGIGKGIASSIGTILKSCGLRVTAIKIDPYINIDAGTFSPYEHGEVFLN
 DGGEVDLDLGNYSERFLDINLYKDNNITGKIYQHVINKERRGDYLGKTVQVPHITDA
 VQEWVMNQAKVPVDGNKEEPQICVIELGGTIGDIEGMPFVEAFRQFQFKAKRENFC
 NIHVSLVPQLSATGEQKTKPTQNSVRALRGLGLSPDLIVCRSSTPIEMAVKEKISMFC
 HVNPEQVICIHDVSSTYRVPVLLLEEQSIVKYFKERLHLPIGDSASNLLFKWRNMADRY
 ERLQKICSIALVGKYTKLRDCYASVFKALEHSALAINHKLNLMYIDSIDLEKITETEDPV

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KFHEAWQKLCKADGILVPGGFGIRGTLGKLQAI SWARTKKIPFLGVCLGMQLAVIEFA
 RNCLNLK DADSTEFRPNAPVPLVIDMPEHNPGNLGGTMRLGIRRTVFKTENSILRKL
 YGDVPFIEERHRHRFEVNPNIKQFEQNDLSFVGQDVGDRMEIIELANHPYFVG VQ
 FHPEFSSRPMKPSPPYLGLLLAATGNLNAYLQQGCKLSSSDRYSDASDDSFSEPRIA
 ELEISTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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 CTPS2 CTP synthase II [Homo sapiens (human)]

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_175859

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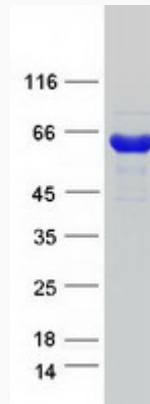
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Protein Refseq NP_787055

MIM 300380

UniProt ID Q9NRF8

SDS-PAGE



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