

Recombinant Full Length Human CTPS2 Protein, transcript variant 2, C-Flag-tagged

Cat. No. CTPS2-20HFL Lot. No. (See product label)

SPECIFICATION

Species	Human
Source	HEK293
ProteinLength	Full Length
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.
Form	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol.
Molecular Mass	65.5 kDa
AA Sequence	MKYILVTGGVISGIGKGIASSIGTILKSCGLRVTAIKIDPYINIDAGTFSPYEHGEVFLN DGGEVDLDLGNYSERFLDINLYKDNNITGKIYQHVINKERRGDYLGKTVQVPHITDA VQEWVMNQAKVPVDGNKEEPQICVIELGGTIGDIEGMPFVEAFRQFQFKAKRENFC NIHVSLVPQLSATGEQKTKPTQNSVRALRGLGLSPDLIVCRSSTPIEMAVKEKISMFC HVNPEQVICIHDVSSTYRVPVLLLEEQSIVKYFKERLHLPIGDSASNLLFKWRNMADRY ERLQKICSIALVGKYTKLRDCYASVFKALEHSALAINHKLNLMYIDSIDLEKITETEDPV

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KFHEAWQKLCKADGILVPGGFGIRGTLGKLQAI SWARTKKIPFLGVCLGMQLAVIEFA
 RNCLNLK DADSTEF RPNAPVPLVIDMPEHNPGNLGGTMRLGIRRTVFKTENSILRKL
 YGDVPFIEERHRHRFEVNPNIKQFEQNDLSFVGQDVGDRMEI IELANHPYFVG VQ
 FHPEFSSRPMKPSPPYLGLLLAATGNLNAYLQQGCKLSSSDRYSDASDDSFSEPRIA
 ELEIS TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining.

Notes For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage Store at -80 centigrade.

Concentration >0.05 µg/µL as determined by microplate BCA method.

Use/Stability Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name CTPS2 CTP synthase 2 [Homo sapiens (human)]

Official Symbol CTPS2

Synonyms CTPS2; CTP synthase 2; GATD5B

Gene ID 56474

mRNA Refseq NM_175859.3

Protein Refseq NP_787055.1

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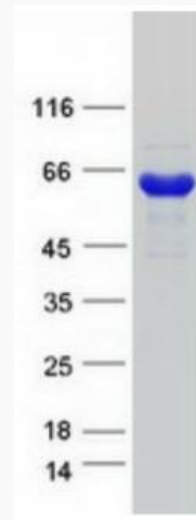
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MIM 300380

UniProt ID Q9NRF8

SDS-PAGE



Coomassie blue staining of purified CTPS2 protein.

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