

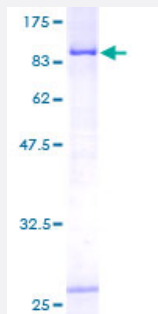
Full-Length

CTPS2 (Human) Recombinant Protein (P01)

Catalog # H00056474-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human CTPS2 full-length ORF (AAH34986, 1 a.a. - 586 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MKYILVTGGVISGIGKGIASSIGTILKSCGLRVTAIKIDPYINIDAGTFSPYEHGEVFLNDGGGEVDLDL
GNYERFLDINLYKDNNITTGKIYQHVINKERRGDYLGKTVQVPHITDAVQEWMNQAKVPVDGNK
EEPQICVIELGGTIGDIEGMPFVEAFRQFQKAKRENFCHVSLVPQLSATGEQTKPTQNSVRAL
RGLGLSPDLVCRSSTPIEMAVKEKISMFCNVPEQVICHVSSSTYRVPVLLLEEQSVKYFKERLHL
PIGDSASNLLFKWRNMADRYERLQKICSIALVGKYTKLRDCYASVFKALEHSALAINHKLNLMYDSI
DLEKITEDPVKFHEAWQKLCADGILVPGGFGIRGTLGKLQAISSWARTKKIPFLGVCLGMQLAVI
EFARNCLNLKDADSTEFRPNAPVPLVIDMPEHNPGNLGGTMRLGIRRTVFKTENSILRKLYGDVPFI
EERHRHREFEVNPNLIKQFEQNDLSFVGQDQVDGDRMEIELANHPYFVGQVQFHPEFSSRPMKPSP
YLGLLLAATGNLNAYLQQGCKLSSSDRYSDASDDSFSEPRIAELEIS

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

90.2

Interspecies Antigen Sequence

Mouse (93); Rat (94)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

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

Gene Info — CTPS2

Entrez GeneID	56474
GeneBank Accession#	BC034986
Protein Accession#	AAH34986
Gene Name	CTPS2
Gene Alias	DKFZp686C17207, FLJ43358, MGC32997
Gene Description	CTP synthase II
Omim ID	300380
Gene Ontology	Hyperlink
Gene Summary	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. Three alternatively spliced transcript variants encoding the same protein have been described for this gene. [provided by RefSeq]

Other Designations

CTP synthetase isoform|CTP synthetase type 2|OTTHUMP00000022985|OTTHUMP00000022986|UTP-ammonia ligase|cytidine 5'-triphosphate synthetase 2|cytidine triphosphate synthase II

Pathway

- [Metabolic pathways](#)
- [Pyrimidine metabolism](#)