

Product datasheet for PH305993

CTPS2 (NM_019857) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	CTPS2 MS Standard C13 and N15-labeled recombinant protein (NP_062831)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC205993
Predicted MW:	65.7 kDa
Protein Sequence:	>RC205993 protein sequence Red=Cloning site Green=Tags(s)

MKYILVTGGVISIGKGIASSIGTILKSCGLRVTAIKIDPYINIDAGTFSPYEHGEVFLNDGGEVDLD
LGN YERFLDINLYKDN NITTKGIYQH VINKERRG DYLGKTVQVVPHITDAVQEWVMNQAKVPVDGNKEEP
QICVIELGGTIGDIEGMPFVEAFRQFQFKAKRENFCNIHVSLVPQLSATGEQKTKPTQNSVRALRGLGLS
PDLIVCRSSTPIEMAVKEKISMFCNVNPEQVICIHDVSSTYRVPVLLLEEQSIVKYFKERLHLPIGDSASN
LLFKWRNMADRYERLQKICSIALVGKYTKLRDCYASVFKALEHSALAINHKLNLMYIDSIDLEKITETED
PVKFHEAWQKLCADGILVPGGFGIRGTLGKQLAISWARTKKIPFLGVCLGMQLAVIEFARNCLNLKDDAD
STEFRPNAPVPLVIDMPEHNPGNLGGTMR LGIRRTVFKTENSILRKLYGDVVPFIEERHRHFEVNPNLIK
QFEQNDLSFVGQDVGDRMEIIELANHPYFVGQVFHPEFSSRPMKPSPPYLGLLLAATGNLNAYLQQGCK
LSSDRYSDASDDSFSEPRIAELEIS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_062831
RefSeq Size:	3887
RefSeq ORF:	1758



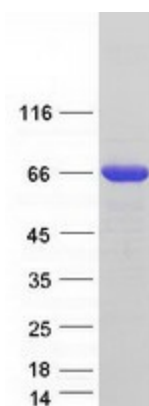
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Synonyms: GATD5B
Locus ID: 56474
UniProt ID: [Q9NRF8](#), [A0A024RC00](#)
Cytogenetics: Xp22.2

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. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2013]

Protein Pathways: Metabolic pathways, Pyrimidine metabolism

Product images:



Coomassie blue staining of purified CTPS2 protein (Cat# [TP305993]). The protein was produced from HEK293T cells transfected with CTPS2 cDNA clone (Cat# [RC205993]) using MegaTran 2.0 (Cat# [TT210002]).