



# Recombinant Human CTP synthase 2 (CTPS2)

<b>Product Code</b>	CSB-EP865117HU-B
<b>Abbreviation</b>	CTPS2
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q9NRF8
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	MKYILVTGGV ISGIGKGI A SSIGTILKSC GLRVTAIKID PYINIDAGTF SPYEHGEV FV LNDGGEVDLD LGNYERFLDI NLYKDNNITT GKIYQHVINK ERRGDYLGKT VQVVP HITDA VQEWVMNQAK VPVDGNKEEP QICVIELGGT IGDIEGMPFV EAFRQFQFKA KRENFCNIHV SLVPQLSATG EQKTKPTQNS VRALRGLGLS PDLIVCRSST PIEMAVKEKI SMFCHVNPEQ VICIHDVSST YRVPVLLEE Q SIVKYFKERL HLPIGDSASN LLFKWRNMAD RYERLQKICS IALVGKYTKL RDCYASVFKA LEHSALAINH KLNLMYIDSI DLEKITETED PVKFHEAWQK LCKADGILVP GGFGIRGTLG KLQAISWART KKIPFLGVCL GMQLAVIEFA RNCLNLK DAD STEFRPNAPV PLVIDMPEHN PGNLGGTMRL GIRRTVFKTE NSILRKLYGD VPFIEERHRH RFEVNPNIK QFEQNDLSFV GQDVDGDRME IIELANHPYF VGVQFHPEFS SRPMKPSPPY LGLLLAATGN LNAYLQQGCK LSSSDRYSDA SDDSFSEPRI AELEIS
<b>Source</b>	E.coli
<b>Target Names</b>	CTPS2
<b>Protein Names</b>	Recommended name: CTP synthase 2 EC= 6.3.4.2 Alternative name(s): CTP synthetase 2 UTP--ammonia ligase 2
<b>Expression Region</b>	1-586
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	full length protein
<b>Target Details</b>	This protein 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.



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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

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