

Full-Length

CTPS (Human) Recombinant Protein (P01)

Catalog # H00001503-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human CTPS full-length ORF (AAH09408, 1 a.a. - 591 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MKYILVTGGVISGIGKGIASSVGTILKSCGLHVTSIKIDPYINIDAGTFSPYEHGEVFLDDGGEVDLD
LGNYERFLDIRLTKDNNLTGKIYQVINKERKGDYLGKTVQVPHITDAIQEWVMRQALIPVDEDGL
EPQVCVIELGGTVGDIESMPFIEAFRQFQFKVKRENFVSLVPQPSSTGEQKTKPTQNSVREL
RGLGLSPDLVVCRCNPLDTSVKEKISMFCHEVEPEQVICVHDVSSYRVPLLLLEEQGVVDYFLRRL
DLPIERQPRKMLMKWKEMADRYDRLLLETCSIALVGKYTKFSDSYASVIKALEHSALAINHKLEIKYID
SADLEPITSQEEPVRVYHEAWQKLC SAHGVLPGGFGVVRGTEGKIQAIAWARNQKKPFLGVCLGM
QLAVVEFSRNVLGWQDANSTFDPTTSHPVVDMPEHNPGQMGGTMRLGKRRTLFQTKNSVM
RKLYGDADYLEERHRHREFVNPVWKKCLEEQGLKFVGQDVEGERMEMELEDHPFFVGVQYHP
EFLSRPIKPSPPYFGLLLASVGRLSHYLQKGCRLSPRDTYSDRIGSSSPDSEITELKFPSINH

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

90.75

Interspecies Antigen Sequence

Mouse (98); Rat (97)

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 — CTPS

Entrez GeneID	1503
GeneBank Accession#	BC009408
Protein Accession#	AAH09408
Gene Name	CTPS
Gene Alias	-
Gene Description	CTP synthase
Omim ID	123860
Gene Ontology	Hyperlink
Gene Summary	The catalytic conversion of UTP to CTP is accomplished by the enzyme cytidine-5-prime-triphosphate synthetase. The enzyme is important in the biosynthesis of phospholipids and nucleic acids, and plays a key role in cell growth, development, and tumorigenesis. The region to which the CTP S gene has been mapped is the location of breakpoints involved in several tumor types [provided by RefSeq]
Other Designations	OTTHUMP00000006322 OTTHUMP00000006323 cytidine 5'-triphosphate synthetase cytidine 5-prime triphosphate synthetase

Pathway

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