CTPS1 Lysate – Tissue Lysate

PRODUCT OVERVIEW

Product Name	CTPS1, Lysate
Full Product Name	Human CTPS1 Protein Lysate
Product Gene Name	CTPS1 lysate
Product Synonym Names	CTPS1; CTPS; IMD24; GATD5
Host	Human
Form/Format	Lyophilized
Preparation and Storage	Store at -20 degree C Once reconsituted, aliquot and store any remaining material at-20 degree C to avoid repeated freeze-thaw cycles.
Molecular Weight	67kDa
OMIM	gene 615897
3D Structure	ModBase 3D Structure for P17812
Related Product Information for CTPS1 lysate	Human CTPS1 Protein Lysate 20ug is provided as a Lyophilized powder. This is a Recombinant Protein Lysate produced in HEK293T cells. This protein lysate can be reconsituted using SDS Sample Buffer.
Other Notes	Small volumes of CTPS1 lysate vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CTPS1 purchase	MBS8410074 is a lysate targeting CTPS1. Also known as Human CTPS1 Protein Lysate. Host: Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CTPS1. It may not necessarily be applicable to this product.

NCBI GI #	148491070
NCBI GeneID	1503
NCBI Accession #	NP_001896
UniProt Primary Accession #	P17812
UniProt Related Accession #	P17812
GenBank Nucleotide #	NM_001905
NCBI Official Full Name	CTP synthase 1 isoform a
NCBI Official Synonym Full Names	CTP synthase 1
NCBI Official Symbol	CTPS1
NCBI Official Synonym Symbols	CTPS; GATD5; IMD24
UniProt Protein Name	CTP synthase 1
UniProt Synonym Protein Names	CTP synthetase 1; UTP--ammonia ligase 1
Protein Family	CTP synthase

UniProt Gene Name	CTPS1
UniProt Entry Name	PYRG1_HUMAN
NCBI Protein Information	CTP synthase 1
NCBI Summary for CTPS1	This gene encodes an enzyme responsible for the catalytic conversion of UTP (uridine triphosphate) to CTP (cytidine triphospate). This reaction is an important step in the biosynthesis of phospholipids and nucleic acids. Activity of this proten is important in the immune system, and loss of function of this gene has been associated with immunodeficiency. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014]
UniProt Comments for CTPS1	CTPS: the enzyme cytidine-5-prime-triphosphate synthetase converts UTP to CTP. 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 CTPS gene has been mapped is the location of breakpoints involved in several tumor types. Protein type: Motility/polarity/chemotaxis; EC 6.3.4.2; Nucleotide Metabolism - pyrimidine; Ligase Chromosomal Location of Human Ortholog: 1p34.1 Cellular Component: membrane; cytosol Molecular Function: CTP synthase activity; ATP binding Biological Process: T cell proliferation; B cell proliferation; response to drug; CTP biosynthetic process; nucleobase, nucleoside and nucleotide metabolic process; nucleobase, nucleoside and nucleotide interconversion; nucleobase, nucleoside, nucleotide and nucleic acid metabolic process; glutamine metabolic process Disease: Immunodeficiency 24
Research Articles on CTPS1	**1.** CTP synthase forms the cytoophidium in human hepatocellular carcinoma.
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