CS Lysate – Tissue Lysate

PRODUCT OVERVIEW

Product Name	CS, Lysate
Full Product Name	Human CS Protein Lysate
Product Gene Name	CS lysate
Product Synonym Names	CS; citrate synthase; mitochondrial; citrate synthase
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	51.4kDa (462aa)
OMIM	118950
3D Structure	ModBase 3D Structure for O75390
Related Product Information for CS lysate	Human CS 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 CS 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 CS purchase	MBS139995 is a lysate targeting CS. Also known as Human CS Protein Lysate. Host: Human.

ADDITIONAL DETAILS

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

NCBI GI #	38327625
NCBI GeneID	1431
NCBI Accession #	NP_004068
UniProt Primary Accession #	O75390
UniProt Secondary Accession #	Q71UT9; Q7KZH0; Q96FZ8; Q9BWN8
UniProt Related Accession #	O75390
GenBank Nucleotide #	NM_004077
NCBI Official Full Name	citrate synthase, mitochondrial
NCBI Official Synonym Full Names	citrate synthase
NCBI Official Symbol	CS
UniProt Protein Name	Citrate synthase, mitochondrial
UniProt Synonym Protein Names	Citrate (Si)-synthase
Protein Family	CS1 fimbrial

UniProt Gene Name	CS
UniProt Entry Name	CISY_HUMAN
NCBI Protein Information	citrate synthase, mitochondrial
NCBI Summary for CS	The protein encoded by this gene is a Krebs tricarboxylic acid cycle enzyme that catalyzes the synthesis of citrate from oxaloacetate and acetyl coenzyme A. The enzyme is found in nearly all cells capable of oxidative metablism. This protein is nuclear encoded and transported into the mitochondrial matrix, where the mature form is found. [provided by RefSeq, Jul 2008]
UniProt Comments for CS	CS: a mitochondrial enzyme of the tricarboxylic acid cycle that converts acetyl-CoA + H2O + oxaloacetate into citrate + CoA. Found in nearly all cells capable of oxidative metabolism. Protein type: Carbohydrate Metabolism - citrate (TCA) cycle; Carbohydrate Metabolism - glyoxylate and dicarboxylate; EC 2.3.3.1; Mitochondrial; Transferase Chromosomal Location of Human Ortholog: 12q13.2 Cellular Component: mitochondrial matrix; mitochondrion; nucleus Molecular Function: citrate (Si)-synthase activity Biological Process: carbohydrate metabolic process; tricarboxylic acid cycle
Research Articles on CS	**1.** Citrate synthase activity was lower in patients with heart failure with preserved ejection fraction compared to controls.
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