PPCDC Lysate – Tissue Lysate

PRODUCT OVERVIEW

Product Name	PPCDC, Lysate
Full Product Name	Human PPCDC Protein Lysate
Product Gene Name	PPCDC lysate
Product Synonym Names	PPCDC; coaC; MDS018; PPC-DC
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	22kDa
OMIM	609854
3D Structure	ModBase 3D Structure for Q96CD2
Related Product Information for PPCDC lysate	Human PPCDC 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 PPCDC 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 PPCDC purchase	MBS8417588 is a lysate targeting PPCDC. Also known as Human PPCDC Protein Lysate. Host: Human.

ADDITIONAL DETAILS

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

NCBI GI #	71725351
NCBI GeneID	60490
NCBI Accession #	NP_068595
UniProt Primary Accession #	Q96CD2
UniProt Related Accession #	Q96CD2
GenBank Nucleotide #	NM_021823
NCBI Official Full Name	phosphopantothenoylcysteine decarboxylase isoform a
NCBI Official Synonym Full Names	phosphopantothenoylcysteine decarboxylase
NCBI Official Symbol	PPCDC
NCBI Official Synonym Symbols	coaC; MDS018; PPC-DC
UniProt Protein Name	Phosphopantothenoylcysteine decarboxylase
UniProt Synonym Protein Names	CoaC
Protein Family	Putative phosphopantothenoylcysteine decarboxylase

UniProt Gene Name	PPCDC
UniProt Synonym Gene Names	COAC; PPC-DC
UniProt Entry Name	COAC_HUMAN
NCBI Protein Information	phosphopantothenoylcysteine decarboxylase
NCBI Summary for PPCDC	Biosynthesis of coenzyme A (CoA) from pantothenic acid (vitamin B5) is an essential universal pathway in prokaryotes and eukaryotes. PPCDC (EC 4.1.1.36), one of the last enzymes in this pathway, converts phosphopantothenoylcysteine to 4-prime-phosphopantetheine (Daugherty et al., 2002 [PubMed 11923312]).[supplied by OMIM, Mar 2008]
UniProt Comments for PPCDC	PPCDC: Necessary for the biosynthesis of coenzyme A. Catalyzes the decarboxylation of 4-phosphopantothenoylcysteine to form 4'- phosphopantotheine. Belongs to the HFCD (homooligomeric flavin containing Cys decarboxylase) superfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: EC 4.1.1.36; Lyase; Cofactor and Vitamin Metabolism - pantothenate and CoA biosynthesis Chromosomal Location of Human Ortholog: 15q24.2 Cellular Component: cytosol Molecular Function: phosphopantothenoylcysteine decarboxylase activity Biological Process: coenzyme A biosynthetic process; coenzyme biosynthetic process; vitamin metabolic process; pantothenate metabolic process; water-soluble vitamin metabolic process
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