Recombinant Human CDS1

Cat. No. CDS1-27913TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment: MLELRHRGSC PGPREAVSPP HREGEAAGGD HETESTSDKE TDIDDRYGDL DSRTDSDIPE IPPSSDRTPE ILKKALSGLS SRWKNWWIRG ILTLTMIS of Human CDS1 (amino acids 1-98) with N terminal proprietary tag, 36.41 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	98 amino acids
Description	Breakdown products of phosphoinositides are ubiquitous second messengers that function downstream of many G protein-coupled receptors and tyrosine kinases regulating cell growth, calcium metabolism, and protein kinase C activity. This gene encodes an enzyme which regulates the amount of phosphatidylinositol available for signaling by catalyzing the conversion of phosphatidic acid to CDP-diacylglycerol. This enzyme is an integral membrane protein localized to two subcellular domains, the matrix side of the inner mitochondrial membrane where it is thought to be involved in the synthesis of phosphatidylglycerol and cardiolipin and the cytoplasmic side of the endoplasmic reticulum where it functions in phosphatidylinositol biosynthesis. Two genes encoding this enzyme have been identified in humans, one mapping to human chromosome 4q21 and a second to 20p13.
Molecular Weight	36.410kDa inclusive of tags

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Tissue specificity	Expressed in adult tissues such as placenta, brain, small intestine, ovary, testis and prostate. Highly expressed in fetal kidney, lung and brain. Lower level in fetal liver.
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MLELRHRGSCPGPREAVSPPHREGEAAGGDHETESTSDKETDIDDRYGDLDSRTDSDIPEIPPSSDRTPEILKKALSGLSSRWKNWWIRGILTLTMIS
Sequence Similarities	Belongs to the CDS family.

GENE INFORMATION

Gene Name	CDS1 CDP-diacylglycerol synthase (phosphatidate cytidylyltransferase) 1 [Homo sapiens]
Official Symbol	CDS1
Synonyms	CDS1; CDP-diacylglycerol synthase (phosphatidate cytidylyltransferase) 1; phosphatidate cytidylyltransferase 1;
Gene ID	1040
mRNA Refseq	NM_001263

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Protein Refseq	NP_001254
MIM	603548
Uniprot ID	Q92903
Chromosome Location	4q21
Pathway	Glycerophospholipid metabolism, organism-specific biosystem; Glycerophospholipid metabolism, conserved biosystem; Metabolic pathways, organism-specific biosystem; Phosphatidylinositol signaling system, organism-specific biosystem; Phosphatidylinositol signaling system, conserved biosystem;
Function	diacylglycerol cholinephosphotransferase activity; nucleotidyltransferase activity; phosphatidate cytidylyltransferase activity;

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