

Recombinant Full Length Human CDS2 Protein, GST-tagged

Cat. No. CDS2-3260HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CDS2 full-length ORF (NP_003809.1, 1 a.a. - 445 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	445 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. [provided by RefSeq, Jul 2008]
Molecular Mass	77.8 kDa
AA Sequence	MTELRQRVAHEPVAPPEDKESESEAKVDGETASDSESRAESAPLPVSADDTPEVLN RALSNLSSRWKNWWVRGILTAMIAFFFFIIYLGPMVLMIIVMCVQIKCFHEIITIGYNY

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HSYDLPWFRTLSWYFLLCVNYFFYGETVTDYFFTLVQREEPLRILSKYHRFISFTLYLI
 GFCMFVLSLVKKHYRLQFYMFGWTHVTLIVVTQSHLVIHNLFEQMIWFIVPISCVICN
 DIMAYMFGFFFFGRTPLIKLSPKKTWEGFIGGFFATVVFGLLLSYVMSGYRCFVCPVE
 YNNDTNSFTVDCEPSDLFRLQEYNIPGVIQSVIGWKTVRMYPFQIHSIALSTFASLIGP
 FGGFFASGFKRAFKIKDFANTIPGHGGIMDRFDCQYLMATFVNVIASFIRGPNPSKLI
 QQFLTLRPDQQLHIFNTLRSHLIDKGMLTSTTEDE

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION
Gene Name

CDS2 CDP-diacylglycerol synthase (phosphatidate cytidyltransferase) 2 [Homo sapiens]

Official Symbol

CDS2

Synonyms

CDS2; CDP-diacylglycerol synthase (phosphatidate cytidyltransferase) 2;
 phosphatidate cytidyltransferase 2; CDS 2; CDP-DG synthase 2; CDP-DAG
 synthase 2; CDP-DG synthetase 2; CDP-diglyceride synthase 2; CDP-diglyceride
 synthetase 2; CDP-diacylglycerol synthase 2; CDP-diglyceride diphosphorylase 2;
 CDP-diglyceride pyrophosphorylase 2; CTP:phosphatidate cytidyltransferase 2;
 FLJ12936; FLJ38111; FLJ41837;

Gene ID

8760

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mRNA Refseq	NM_003818
Protein Refseq	NP_003809
MIM	603549
UniProt ID	O95674

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