

Recombinant Human CDS2 Protein, GST-Tagged

Cat. No. CDS2-1077H **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	Wheat Germ
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	MTELQRVAHEPVAPPEDKESESEAKVDGETASDSESRAESAPLPVSADDTPEVLN RALSNLSSRWKNWWVRGILTLAMIAFFFFIIYLGPMVLMIIVMCVQIKCFHEIITIGYNVY HSYDLPWFRTLSTWYFLLCVNYFFYGETVTDYFFTLVQREEPLRILSKYHRFISFTLYLI

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GFCMFVLSLVKKHYRLQFYMFGWTHVTLIVVTQSHLVIHNLFEQMIWFIVPISCVICN
 DIMAYMFGFFFFGRTPLIKLSPKKTWEGFIGGFFATVVFGLLLSYVMMSGYRCFVCPVE
 YNNDTNSFTVDCEPSDLFRLQEYNIPGVIQSVIGWKTVRMYPFQIHSLSTFASLIGP
 FGGFFASGFKRAFKIKDFANTIPGHGGIMDRFDCQYLMATFVNVYIASFIRGPNPSKLI
 QQFLTLRPDQQLHIFNTLRSHLIDKGMTSTTEDE

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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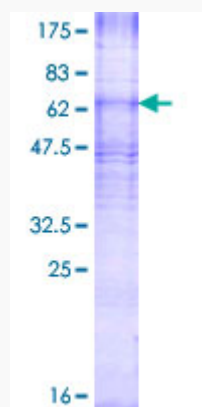
mRNA Refseq [NM_003818](#)

Protein Refseq [NP_003809](#)

MIM [603549](#)

UniProt ID [O95674](#)

**Quality Control
Testing**



12.5% SDS-PAGE Stained with Coomassie Blue.

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