Recombinant Human CDS2, GST-tagged

Cat. No. CDS2-11071H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CDS2 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	C-term-92a.a.
Description	The protein encoded by this gene is a small GTPase of the Rho-subfamily, which regulates signaling pathways that control diverse cellular functions including cell morphology, migration, endocytosis and cell cycle progression. This protein is highly similar to Saccharomyces cerevisiae Cdc 42, and is able to complement the yeast cdc42-1 mutant. The product of oncogene Dbl was reported to specifically catalyze the dissociation of GDP from this protein. This protein could regulate actin polymerization through its direct binding to Neural Wiskott-Aldrich syndrome protein (N-WASP), which subsequently activates Arp2/3 complex. Alternative splicing of this gene results in multiple transcript variants.
Storage	The protein is stored in PBS buffer at -20℃. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100,15%glycerol.

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GENE INFORMATION

Gene Name	CDS2 CDP-diacylglycerol synthase (phosphatidate cytidylyltransferase) 2 [Homo sapiens]
Official Symbol	CDS2
Synonyms	CDS2; CDP-diacylglycerol synthase (phosphatidate cytidylyltransferase) 2; phosphatidate cytidylyltransferase 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 cytidylyltransferase 2; FLJ12936; FLJ38111; FLJ41837;
Gene ID	8760
mRNA Refseq	NM_003818
Protein Refseq	NP_003809
MIM	603549
UniProt ID	O95674
Chromosome Location	20p13
Pathway	CDP-diacylglycerol biosynthesis I, organism-specific biosystem; Glycerophospholipid metabolism, organism-specific biosystem; Glycerophospholipid metabolism, conserved biosystem; Metabolic pathways, organism-specific biosystem; Phosphatidylinositol signaling system, organism-specific biosystem;

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	Phosphatidylinositol signaling system, conserved biosystem; phosphatidylglycerol biosynthesis II (non-plastidic), organism-specific biosystem;
Function	nucleotidyltransferase activity; phosphatidate cytidylyltransferase activity;

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