

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 <i>Saccharomyces cerevisiae</i> Cdc 42, and is able to complement the yeast <i>cdc42-1</i> mutant. The product of oncogene <i>Dbl</i> 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°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 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 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
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 cytidyltransferase activity;

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