# CDS1 (Human) Recombinant Protein (Q01)

Catalog # H00001040-Q01 Size 10 ug, 25 ug

## Applications



Specification	
Product Description	Human CDS1 partial ORF ( NP_001254, 1 a.a 98 a.a.) recombinant protein with GST-tag at N-ter minal.
Sequence	MLELRHRGSCPGPREAVSPPHREGEAAGGDHETESTSDKETDIDDRYGDLDSRTDSDIPEIPPS SDRTPEILKKALSGLSSRWKNWWIRGILTLTMIS
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.52
Interspecies Antigen Sequence	Mouse (90); Rat (90)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCI, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.



## Applications

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

Gene Info — CDS1	
Entrez GenelD	<u>1040</u>
GeneBank Accession#	<u>NM_001263</u>
Protein Accession#	<u>NP_001254</u>
Gene Name	CDS1
Gene Alias	CDS
Gene Description	CDP-diacylglycerol synthase (phosphatidate cytidylyltransferase) 1
Omim ID	<u>603548</u>
Gene Ontology	Hyperlink
Gene Summary	Breakdown products of phosphoinositides are ubiquitous second messengers that function down stream 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 am ount of phosphatidylinositol available for signaling by catalyzing the conversion of phosphatidic ac id to CDP-diacylglycerol. This enzyme is an integral membrane protein localized to two subcellula r domains, the matrix side of the inner mitochondrial membrane where it is thought to be involved i n the synthesis of phosphatidylglycerol and cardiolipin and the cytoplasmic side of the endoplasmi c reticulum where it functions in phosphatidylinositol biosynthesis. Two genes encoding this enzy me have been identified in humans, one mapping to human chromosome 4q21 and a second to 2 0p13. [provided by RefSeq
Other Designations	CDP-DAG synthase 1 CDP-DG synthetase 1 CDP-diacylglycerol synthase 1 CDP-diglyceride pyr ophosphorylase 1 CDP-diglyceride synthetase 1 CTP:phosphatidate cytidylyltransferase 1 phosp hatidate cytidylyltransferase 1

# 😵 Abnova

#### **Product Information**

- <u>Glycerophospholipid metabolism</u>
- <u>Metabolic pathways</u>
- Phosphatidylinositol signaling system

### Disease

- <u>Cardiovascular Diseases</u>
- Diabetes Mellitus
- Edema