

Full-Length

## CDC42 (Human) Recombinant Protein

Catalog # P9359

Size 50 ug

### Specification

<b>Product Description</b>	Human CDC42 full-length recombinant protein with T7 tag in N-terminus expressed in <i>Escherichia coli</i> .
<b>Sequence</b>	MASMTGGQQMGRGSHMQTIKCVVVG DGAVGKTCLLISYTTNKFSEYVPTVFDNYAVTVMIGGEP YTLGLFDTAGQEDYDRLRPLSYPTDVLVCFVSVSPSSFENVKEKWVPEITHHCPKTPFLLVGT QIDLRDDPSTIEKLAKNKQKPITPETAELARDLKAVKYVECSALTQKGLKNVFDEAILAALEPPEP KKSRRRC
<b>Host</b>	Escherichia coli
<b>Theoretical MW (kDa)</b>	22.4
<b>Form</b>	Liquid
<b>Preparation Method</b>	<i>Escherichia coli</i> expression system
<b>Purification</b>	chromatographic
<b>Purity</b>	> 95% as determined by SDS-PAGE.
<b>Storage Buffer</b>	Solution containing 20 mM Tris-HCl, pH 8.0, 10% glycerol, 2 mM EDTA, 1 mM DTT.
<b>Storage Instruction</b>	Store at 4°C for one weeks and should be stored at -20°C to -80°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid repeated freeze/thaw cycles.

### Applications

- SDS-PAGE

### Gene Info — CDC42

Entrez GeneID	<a href="#">998</a>
Protein Accession#	<a href="#">P60953</a>
Gene Name	CDC42
Gene Alias	CDC42Hs, G25K
Gene Description	cell division cycle 42 (GTP binding protein, 25kDa)
Omim ID	<a href="#">116952</a>
Gene Ontology	<a href="#">Hyperlink</a>
Gene Summary	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 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. [provided by RefSeq]
Other Designations	GTP-binding protein, 25kD OTTHUMP00000002834 OTTHUMP00000002926 cell division cycle 42 cell division cycle 42 (GTP binding protein, 25kD) cell division cycle 42 (GTP-binding protein, 25kD) dJ224A6.1.1 (cell division cycle 42 (GTP-binding protein, 25kD)) d

## Pathway

- [Adherens junction](#)
- [Axon guidance](#)
- [Chemokine signaling pathway](#)
- [Endocytosis](#)
- [Epithelial cell signaling in Helicobacter pylori infection](#)
- [Fc gamma R-mediated phagocytosis](#)
- [Focal adhesion](#)
- [GnRH signaling pathway](#)
- [Leukocyte transendothelial migration](#)
- [MAPK signaling pathway](#)
- [Neurotrophin signaling pathway](#)

- [Pancreatic cancer](#)
- [Pathogenic Escherichia coli infection - EHEC](#)
- [Pathways in cancer](#)
- [Regulation of actin cytoskeleton](#)
- [Renal cell carcinoma](#)
- [T cell receptor signaling pathway](#)
- [Tight junction](#)
- [VEGF signaling pathway](#)

## Disease

- [Genetic Predisposition to Disease](#)
- [Hepatitis B](#)
- [HIV Infections](#)
- [Multiple Sclerosis](#)
- [Parkinson disease](#)