antibodies -online.com





CDC42 Protein (AA 1-188) (His tag)





Go to Product page

\sim			
	N/6	1//r	$I \cap V$

Quantity:	1 mg	
Target:	CDC42	
Protein Characteristics:	AA 1-188	
Origin:	Mouse	
Source:	Insect Cells	
Protein Type:	Recombinant	
Purification tag / Conjugate:	This CDC42 protein is labelled with His tag.	
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS), Crystallization (Crys)	
Product Details		
Sequence:	MQTIKCVVVG DGAVGKTCLL ISYTTNKFPS EYVPTVFDNY AVTVMIGGEP YTLGLFDTAG	
	QEDYDRLRPL SYPQTDVFLV CFSVVSPSSF ENVKEKWVPE ITHHCPKTPF LLVGTQIDLR	
	DDPSTIEKLA KNKQKPITPE TAEKLARDLK AVKYVECSAL TQKGLKNVFD EAILAALEPP	
	EPKKSRRC	
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a	
	special request, please contact us.	
Characteristics:	Made in Germany - from design to production - by highly experienced protein experts.	
	Mouse Cdc42 Protein (raised in Insect Cells) purified by multi-step, protein-specific process	
	to ensure crystallization grade.	
	to ensure crystallization grade.	

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm.

The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

- 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
- 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility:

0.22 µm filtered

Endotoxin Level:

Protein is endotoxin free.

Grade:

Crystallography grade

Target Details

Target:	CDC42	
Alternative Name:	Cdc42 (CDC42 Products)	
Background:	Plasma membrane-associated small GTPase which cycles between an active GTP-bound and	
	an inactive GDP-bound state. In active state binds to a variety of effector proteins to regulate	
	cellular responses. Involved in epithelial cell polarization processes. Regulates the bipolar	

Target Details

Expiry Date:

rarget Details		
	attachment of spindle microtubules to kinetochores before chromosome congression in metaphase. Plays a role in the extension and maintenance of the formation of thin, actin-rich	
	surface projections called filopodia. Mediates CDC42-dependent cell migration.	
Molecular Weight:	21.9 kDa Including tag.	
UniProt:	P60766	
Pathways:	MAPK Signaling, Microtubule Dynamics, RTK Signaling, WNT Signaling, TCR Signaling, EGFR	
	Signaling Pathway, Regulation of Actin Filament Polymerization, Regulation of Muscle Cell	
	Differentiation, Cell-Cell Junction Organization, Maintenance of Protein Location, Skeletal	
	Muscle Fiber Development, Signaling Events mediated by VEGFR1 and VEGFR2, EGFR	
	Downregulation, VEGF Signaling	
Application Details		
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies	
	as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee	
	though.	
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the	
	recombinant protein with the default tag will be insoluble our protein lab may suggest a higher	
	molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible	
	options with you in detail to assure that you receive your protein of interest.	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.	
Handling Advice:	Avoid repeated freeze-thaw cycles.	
Storage:	-80 °C	
Storage Comment:	Store at -80°C.	

Unlimited (if stored properly)

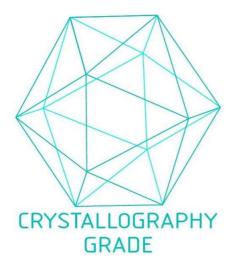


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process