## Product Description

## CDC42 PROTEIN

产品名称：Cdc42 蛋白
货号 10107
产品全名：Cdc42 蛋白
基因符号 Cell division cycle 42，G25K，CDC42Hs
Source：Human，recombinant full length，His6－tag
Expression 种属反应性：E．coli
分子量： 21 kDa
纯化：＞95\％by SDS－PAGE
Introduction：Small GTPases are a super－family of cellular signaling regulators．Cdc42 belongs to the Rho sub－family of GTPases that regulate cell motility，cell division，and gene transcription．GTP binding increases the activity of Cdc42，and the hydrolysis of GTP to GDP renders it inactive．GTP hydrolysis is aided by GTPase activating proteins （GAPs），while exchange of GDP for GTP is facilitated by guanine nucleotide exchange factors（GEFs）．
Amino Acid Sequence（1－191）
MQTIKCVVVGDGAVGKTCLLISYTTNKFPSEYVPTVFDNYAVTVMIGGEPYTLGLFDTAGQEDYDRL RPLSYPQTDVFLVCFSVVSPSSFENVKEKWVPEITHHCPKTPFLLVGTQIDLRDDPSTIEKLAKNKQ KPITPETAEKLARDLKAVKYVECSALTQKGLKNVFDEAILAALEPPEPKKSRRCVLL

## Properties

Physical Appearance（form）：Dissolved in 20 mM Tris－HCl，pH8．0， 150 mM NaCl ．
Physical Appearance（form）：White or clear
Concentration： $1 \mathrm{mg} / \mathrm{mL}$
Storage：$-80^{\circ} \mathrm{C}$

## Preparation Instructions：

Centrifuge the vial before open the cap and reconstitute in water．Adding of $10 \mathrm{mM} \beta$－ mercaptoethanol or 1 mM DTT into the solution to protect the protein is recommended and using of non－ionic detergents such as $n$－Dodecyl $\beta$－D－maltoside（DoDM）or polyethylene detergents（e．g．Cl2E10）also help to stabilize the protein．Avoid repeated freezing and thawing after reconstitution．The purity of His－tagged Cdc42 was determined by SDS－PAGE and Coomassie Brilliant Blue Staining．

## Product Description



## References:

1. Garrett, W. S. . et al., Cell 102: 325-334, 2000.
2. Irie, F. et al., Nature Neurosci. 5: 1117-1118, 2002.
3. Kawasaki, Y. et al., Oncogene 26: 7620-7627, 2007.
4. Manser, E. et al., Nature 363: 364-367, 1993.
5. Musch, A. et al., EMBO J. 20: 2171-2179, 2001.
6. Nalbant, P. et al., Science 305: 1615-1619, 2004.
7. Shen, Y. et al., Dev. Cell 14: 342-353, 2008.
8. Wu, W. J. et al., Nature 405: 800-804, 2000.
9. Wu, X. et al., Genes Dev. 20: 571-585, 2006.
10. Zheng, Y. et al., J. Biol. Chem. 271: 33169-33172, 1996.
