Recombinant human CDC42 protein

Catalog Number: ATGP0395

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-188aa

UniProt No.
P60953

NCBI Accession No.
NP_001782

Alternative Names
Cell division cycle 42 isoform 1, G25K, Cell division cycle 42 isoform 1 CDC42Hs, Cell division cycle 42, Small GTP binding protein CDC42.

PRODUCT SPECIFICATION

Molecular Weight
22.4 kDa (203aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 2mM EDTA

Purity
> 95% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Tag
T7-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
Cell division cycle 42 isoform 1, also known as CDC42, 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. Also, this protein could regulate actin polymerization through its direct binding to Neural

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Wiskott-Aldrich syndrome protein (N-WASP), which subsequently activates Arp2/3 complex. Loss of CDC42 function caused an increase in the endocytotic uptake of apical proteins, including apical polarity factors such as Crumbs. Recombinant human CDC42, fused to T7-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

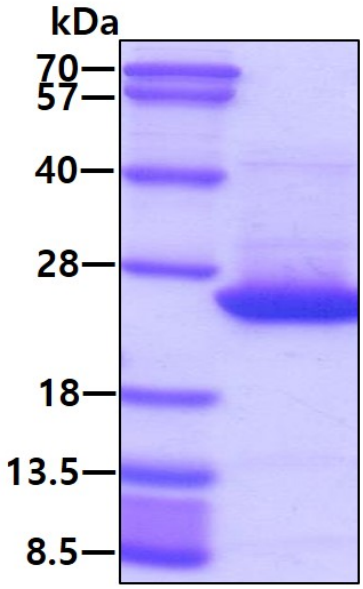
<MASMTGGQQM GRGSH>MQTIK CVVVGDGAVG KTCLLISYTT NKFPSEYVPT VFDNYAVTVM IGGEPYTLGL FDTAGQEDYD RLRPLSYPQT DVFLVCFSVV SPSSFENVKE KWVPEITHHC PKTPFLLVGT QIDLRDDPST IEKLAKNKQK PITPETAEKL ARDLKAVKYV ECSALTQKGL KNVFDEAILA ALEPPEPKKS RRC

General References

Kathryn P., et al. (2008) J Cell Biol. 183(6):1129-1143.
Li R., et al. (1997) J Biol Chem. 272(52):32830-5.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.