

Recombinant Human CDC42 Binding Protein Kinase Alpha (DMPK-like), His-tagged

Cat. No. CDC42BPA-368H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant human CDC42BPA, catalytic domain (amino acids 1-473) with His Tag.

Species Human

Source Insect Cells

Protein Length 1-473 a.a.

Description The protein encoded by this gene is a member of the Serine/Threonine protein kinase family. This kinase contains multiple functional domains. Its kinase domain is highly similar to that of the myotonic dystrophy protein kinase (DMPK). This kinase also contains a Rac interactive binding (CRIB) domain, and has been shown to bind CDC42. It may function as a CDC42 downstream effector mediating CDC42 induced peripheral actin formation, and promoting cytoskeletal reorganization. Multiple alternatively spliced transcript variants have been described, and the full-length nature of two of them has been reported.

Form Liquid in 50 mM Tris, pH 7.5 + 150 mM NaCl + 0.5 mM EDTA + 0.02% Triton X-100 + 2 mM DTT + 50% glycerol.

Molecular Weight 58.7 kDa

Purity ≥ 90% as determined by a Coomassie blue-stained SDS-PAGE gel.

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Specific Activity 179 nmoleof phosphate transferred to S6 peptide substrate (AKRRRLSSLRA) per minute permg of total protein at 30°C. Activity determined at a final protein concentrationof 3.33 ug/ml.

Storage Stablefor 6 months in working aliquots at -80°C. Avoid repeated freeze-thaw cycles.

OfficialSymbol CDC42BPA

GENE INFORMATION

Gene Name [CDC42BPACDC42 binding protein kinase alpha \(DMPK-like\) \[Homo sapiens \]](#)

Synonyms CDC42BPA;CDC42 binding protein kinase alpha (DMPK-like); MRCK; MRCKA; PK428;FLJ23347; KIAA0451; DKFZp686L1738; DKFZp686P1738; CDC42-bindingprotein kinase alpha (DMPK-like); OTTHUMP00000035727; OTTHUMP00000035728; OTTHUMP00000035729;OTTHUMP00000035730; OTTHUMP00000035731; OTTHUMP00000035732; OTTHUMP00000035733;Serine/threonine-proteinkinase MRCK alpha; EC 2.7.11.1; CDC42-binding protein kinasealpha; DMPK-like alpha; Myotonic dystrophy kinase-related CDC42-binding kinasealpha; ser-thr protein kinaserelated to the myotonic dystrophy protein kinase

Gene ID [8476](#)

mRNA Refseq [NM_003607](#)

Protein Refseq [NP_003598](#)

MIM [603412](#)

UniProt ID [Q5VT25](#)

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Chromosome Location	1q42.11
Pathway	CDC42 signalingevents
Function	protein binding; ATPbinding; identical protein binding; magnesium ion binding; nucleotidebinding; protein serine/threoninekinase activity; small GTPase regulator activity

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