

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

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

SPECIFICATION

Product Overview	Recombinanthuman CDC42BPA, catalytic domain (amino acids 1-473) with His Tag.
Species	Human
Source	Insect Cells
ProteinLength	1-473 a.a.
Description	Theprotein encoded by this gene is a member of the Serine/Threonine proteinkinase family. This kinase contains multiple functional domains. Its kinasedomain 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 downstreameffector mediating CDC42 induced peripheral actin formation, and promotingcytoskeletal reorganization. Multiple alternatively spliced transcriptvariants have been described, and the full-length nature of two of them hasbeen reported.
Form	Liquid in50 mM Tris, pH 7.5 + 150 mM NaCl + 0.5 mM EDTA + 0.02% Triton X-100 + 2 mMDTT + 50% glycerol.
Molecular Weight	58.7 kDa
Purity	≥ 90% asdetermined 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 signaling events
Function	protein binding; ATP binding; identical protein binding; magnesium ion binding; nucleotide binding; protein serine/threonine kinase activity; small GTPase regulator activity

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