

Active Recombinant Human DMPK, GST-tagged

Cat. No. CDC42BPG-1396H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human DMPK was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	Full length
Description	<p>DMPK (or Myotonic Dystrophy Protein Kinase) is a serine-threonine kinase that is closely related to other kinases that interact with members of the Rho family of small GTPases. DMPK protein has a leucine-rich domain at the N-terminus, a serine/threonine kinase domain in the middle, and a hydrophobic region at the C-terminus. The N-terminus of DMPK plays an important role in DMPK kinase activity, and the C-terminus of DMPK determines the intracellular localization of the protein. Myotonic dystrophy type 1 is an autosomal dominant disease caused by a trinucleotide repeat-expansion, cytosine-thymine-guanine (CTG)_n, in the 3 untranslated region of DMPK.</p>
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, 25% glycerol.
Bio-activity	4.5 nmol/min/mg
Molecular Mass	~105kDa

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Purity	>90%
Applications	Kinase Assay, Western Blot
Storage	Store at -70°C . For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.1 $\mu\text{g}/\mu\text{l}$
GENE INFORMATION	
Gene Name	CDC42BPG CDC42 binding protein kinase gamma (DMPK-like) [Homo sapiens]
Official Symbol	CDC42BPG
Synonyms	CDC42BPG; CDC42 binding protein kinase gamma (DMPK-like); serine/threonine-protein kinase MRCK gamma; DMPK2; HSMDPKIN; kappa 200; MRCKgamma; MRCK gamma; DMPK-like gamma; CDC42-binding protein kinase gamma; myotonic dystrophy protein kinase-like alpha; myotonic dystrophy protein kinase-like gamma; myotonic dystrophy protein kinase like protein; myotonic dystrophy kinase-related CDC42-binding kinase gamma; MRCKG; KAPPA-200;
Gene ID	55561
mRNA Refseq	NM_017525
Protein Refseq	NP_059995
MIM	613991
UniProt ID	Q6DT37

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**Chromosome
Location**

11q13

Function

ATP binding; ATP binding; magnesium ion binding; nucleotide binding; protein serine/threonine kinase activity; protein serine/threonine kinase activity; small GTPase regulator activity;

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