

Recombinant Human DMPK, GST-tagged, Active

Cat. No. DMPK-295H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human DMPK was expressed by baculovirus in <i>Sf9</i> insect cell/susing an N-terminal GST tag. MW=105 kDa.
Species	Human
Source	Sf9 Cells
Description	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.
Sequence	Full-length.
Applications	Kinase Assay, Western Blot.
Storage And Stability	Store product at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

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GENE INFORMATION

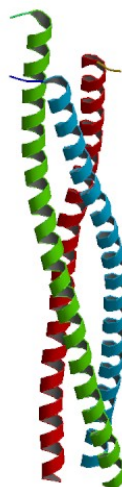
Gene Name	DMPK dystrophia myotonica-protein kinase [Homo sapiens]
Synonyms	DMPK; dystrophia myotonica-protein kinase; DM; DM1; DMK; MDPK; DM1PK; MT-PK; DM protein kinase; myotonic dystrophy protein kinase; thymopoietin homolog; myotonin protein kinase A; myotonic dystrophy associated protein kinase; EC 2.7.11.1
Gene ID	1760
mRNA Refseq	NM_001081560
Protein Refseq	NP_001075029
MIM	605377
UniProt ID	Q09013
Chromosome Location	19q13.3
Function	ATP binding; magnesium ion binding; nucleotide binding; protein binding; protein serine/threonine kinase activity; transferase activity

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on 1wt6.



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