

Recombinant Human DMPK

Cat. No. DMPK-26934TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Dystrophia myotonica protein kinase with N-terminal proprietary tag expressed in a Baculovirus infected Sf9 cell expression system, MWt 105kDa.
Species	Human
Description	The protein encoded by this gene is a serine-threonine kinase that is closely related to other kinases that interact with members of the Rho family of small GTPases. Substrates for this enzyme include myogenin, the beta-subunit of the L-type calcium channels, and phospholemman. The 3 untranslated region of this gene contains 5-37 copies of a CTG trinucleotide repeat. Expansion of this unstable motif to 50-5,000 copies causes myotonic dystrophy type I, which increases in severity with increasing repeat element copy number. Repeat expansion is associated with condensation of local chromatin structure that disrupts the expression of genes in this region. Several alternatively spliced transcript variants of this gene have been described, but the full-length nature of some of these variants has not been determined.
Biological activity	The Specific activity of DMPK-26934TH was determined to be 4.5 nmol/min/mg.
Form	Liquid
Storage buffer	Preservative: None Constituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, pH 7.5
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw

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cycles.

Full Length

Full L.

GENE INFORMATION

Gene Name

DMPK dystrophia myotonica-protein kinase [Homo sapiens]

Official Symbol

DMPK

Synonyms

DMPK; dystrophia myotonica-protein kinase; myotonin-protein kinase; DM; DM protein kinase; DM1; DM1PK; DMK; dystrophia myotonica 1; MDPK; MT PK; myotonic dystrophy associated protein kinase; myotonin protein kinase A; thymopoietin homolog;

Gene ID

1760

mRNA Refseq

NM_001081560

Protein Refseq

NP_001075029

MIM

605377

Uniprot ID

Q09013

**Chromosome
Location**

19q13.3

Function

ATP binding; metal ion binding; myosin phosphatase regulator activity; nucleotide binding; protein binding;

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