

# Recombinant Human DMPK Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** DMPK-5668H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | DMPK MS Standard C13 and N15-labeled recombinant protein (NP_001075031) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>      | <p>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 5-38 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.</p> |
| <b>Molecular Mass</b>   | 69.4 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>AA Sequence</b>      | MSAEVRLRRLQQLVLDPGFLGLEPLDLLLVHQLGASELAQDKYVADFLQWAEPI<br>VVRLKEVRLQRDDFEILKVIGRGAFSEVAVVKMKQTGQVYAMKIMNKWDMLKRGEV<br>SCFREERDVLVNGDRRWITQLHFAFQDENLYLVMEYYVGGDLLTLLSKFGERIPAE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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MARFYLAIEIVMAIDSVHRLGYVHRDIKPDNILLDRCGHIRLADFGSCLKLRADGTVRS  
 LVAVGTPDYLSPILQAVGGGPGTGSYGPECDWWALGVFAYEMFYGQTPFYADST  
 AETYGKIVHYKEHLSLPLVDEGVPEEARDFIQRLCPPETRLGRGGAGDFRTHPFFF  
 GLDWDGLRDSVPPFTPDEFEGATDTCNFDLVEDGLTAMETLSDIREGAPLGVHLPFV  
 GYSYSCMALRDSEVPGPTPMELEAEQLLEPHVQAPSLEPSVSPQDETAEVAVPAAV  
 PAAEAEAEVTLRELQEALEEEVLTRQSLSREMEAIRTDNQNFASQLREAEARNRDLE  
 AHVRQLQERMELLQAEGATAVTGVPSPRATDPPSHMAPRPWLWASARWWGQAP  
 CTAATCCSLPGSLGLAYRRRFPCSCSPLFCLVPPPWAALGWWPTPANSPQSGAAQ  
 EPPALPEPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Stability** Stable for 3 months from receipt of products under proper storage and handling conditions.

**Storage** Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

**Concentration** 50 µg/mL as determined by BCA

**Storage Buffer** 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

**Gene Name** DMPK dystrophia myotonica-protein kinase [ Homo sapiens (human) ]

**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; DM-kinase; DM1 protein kinase; myotonic dystrophy protein

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kinase; MT-PK;

**Gene ID** 1760

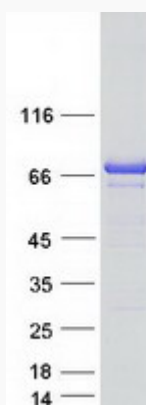
**mRNA Refseq** NM\_001081562

**Protein Refseq** NP\_001075031

**MIM** 605377

**UniProt ID** Q09013

**SDS-PAGE**



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