

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

Cat. No. DMPK-2545H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	DMPK MS Standard C13 and N15-labeled recombinant protein (NP_004400) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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 5-38 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.
Molecular Mass	69.4 kDa
AA Sequence	MSAEVRLRRLQQLVLDPGFLGLEPLDLLLVHQLGASELAQDKYVADFLQWAEPI VURLKEVRLQRDDFEILKVIGRGAFSEVAVVKMKQTGQVYAMKIMNKWDMLKRGEV SCFREERDVLVNGDRRWITQLHFAFQDENLYLVMEYYVGGDLLTLLSKFGERIPAE

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MARFYLAIEIVMAIDSVHRLGYVHRDIKPDNILLDRCGHIRLADFGSCLKLRADGTVRS
 LVAVGTPDYLSPILQAVGGGPGTGSYGPECDWWALGVFAYEMFYGQTPFYADST
 AETYGKIVHYKEHLSLPLVDEGVPEEARDFIQRLLCPPETRLGRGGAGDFRTHPFFF
 GLDWDGLRDSVPPFTPDEFEGATDTCNFDLVEDGLTAMVSGGGETLSDIREGAPLGV
 HLPFVGYSYSCMALRDSEVPGPTPMELEAEQLLEPHVQAPSLEPSVSPQDETAEVA
 VPAAVPAAEAEAEVTLRELQEALEEEVLTRQSLREMEAIRTDNQNFASQLREAEAR
 NRDLEAHVRQLQERMELLQAEGATAVTGVPSPRATDPPSHLDGPPAVAVGQCPLV
 GPGPMHRRHLLLPARVPRPGLSEALSLLLFAVVLSSRAAALGCIGLVAHAGQLTAVWR
 RPGAARAPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

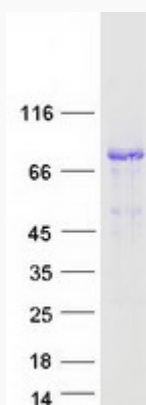
mRNA Refseq NM_004409

Protein Refseq NP_004400

MIM 605377

UniProt ID Q09013

SDS-PAGE



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