

Product datasheet for TP309151M

Dystrophia myotonica protein kinase (DMPK) (NM_004409) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human dystrophia myotonica-protein kinase (DMPK), transcript variant 2, 100 µg

Species: Human

Expression Host: HEK293T

Expression cDNA Clone or AA Sequence: >RC209151 protein sequence
Red=Cloning site **Green**=Tags(s)

MSAEVRLRRLQQLVLDPGFLGLEPLDLLLGVHQELGASELAQDKYVADFLQWAEPIVWRLKEVRLQRDD
FEILKVIGRGAFSEVAVVKMKQTGQVYAMKIMNKWDMLKRGEVSCFREERDVLVNGDRRWITQLHFAFQD
ENYLVLVMEYYVGGDLLTLLSKFGERIPAEMARFYLAEIVMAIDSVHRLGYVHRDIKPDNILLDRCGHIR
LADFGSCLKLRADGTVRSLVAVGTPDYLSPEILQAVGGPGTGSYGPECDWWALGVFAYEMFYGQTPFYA
DSTAETYGKIVHYKEHLSPLVDEGVPEEARDFIQRLLCPPETRLGRGGAGDFRTHPFFFGLDWDGLRDS
VPPFTPDFEGATDTCNFDLVEDGLTAMVSGGETLSDIREGAPLGVHLPFVGYSSCMALRDSEVPGTP
MELEAEQLLEPHVQAPSLEPSVSPQDETAEVAVPAAVPAAEAEAEVTLRELQEALEEEVLTRQSLREME
AIRTDNQN FASQLREAEARNRDLEAHVRQLQERMELLQAEGATAVTGVPSPRATDPPSHLDGPPAVAVGQ
CPLVGPMPHRRHLLL PARVPRPGLSEALSLLLFAVWLSRAAALGCIGLVAHAGQLTAVWRRPGAARAP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 69.2 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

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

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

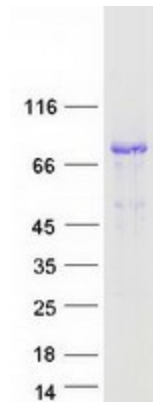
Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage: Store at -80°C.



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Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_004400
Locus ID:	1760
UniProt ID:	Q09013 , E5KR06
RefSeq Size:	2874
Cytogenetics:	19q13.32
RefSeq ORF:	1887
Synonyms:	DM; DM1; DM1PK; DMK; MDPK; MT-PK
Summary:	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. [provided by RefSeq, Jul 2016]
Protein Families:	Druggable Genome, Protein Kinase

Product images:

Coomassie blue staining of purified DMPK protein (Cat# [TP309151]). The protein was produced from HEK293T cells transfected with DMPK cDNA clone (Cat# [RC209151]) using MegaTran 2.0 (Cat# [TT210002]).