

Product datasheet for PH309151

Dystrophia myotonica protein kinase (DMPK) (NM_004409) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	DMPK MS Standard C13 and N15-labeled recombinant protein (NP_004400)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC209151
Predicted MW:	69.4 kDa
Protein Sequence:	>RC209151 protein sequence Red=Cloning site Green=Tags(s)

MSAEVRLRRLQQLVLDPGFLGLEPLDLLLGVHQELGASELAQDKYVADFLQWAEPIVVRLKEVRLQRDD
FEILKVIIRGAFSEVAVVVKMKQTGQVYAMKIMNKWDMLKRGEVSCFREERDVLVNGDRRWITQLHFAFQD
ENYLYLMEYVGGDLLTLLSKFGERIPAEMARFYLAIEVMAIDSVHRLGYVHRDIKPDNILLDRCGHIR
LADFGSCLKLRADGTVRSLVAVGTPDYLSPEILQAVGGGPGTGSYGPECDWWALGVFAYEMFYGQTPFYA
DSTAETYGKIVHYKEHLSLPLVDEGVPEEARDFIQRLLCPPETRLGRGGAGDFRTHPFFGLDWDGLRDS
VPPFTPDPFEGATDTCNFDLVEDGLTAMVSGGETLSDIREGAPLGVHLPFVGYSYSCMALRDSEVPGPTP
MELEAEQLLEPHVQAPSLEPSVSPQDETAEVAVPAAVPAAEAEVTLRELQEALEEEVLTRQSLSREME
AIRTDNQNFASQLREAEARNRDLEAHVRQLQERMELLQAEGATAVTGVPSPRATDPPSHLDGPPAVAVGQ
CPLVGPMPHRRHLLPARVPRPGLSEALSLLFAVLSRAAALGCIGLVAHAGQLTAVWRRPGAARAP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_004400
RefSeq Size:	2874
RefSeq ORF:	1887



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Synonyms: DM; DM1; DM1PK; DMK; MDPK; MT-PK

Locus ID: 1760

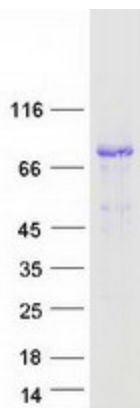
UniProt ID: [Q09013](#), [E5KR06](#)

Cytogenetics: 19q13.32

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]).