Recombinant Human DMPK Protein, MYC/DDK-tagged

Cat. No. DMPK-2211H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human DMPK protein, fused to MYC/DDK-tagged at C-terminus, was expressed in HEK293
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. [provided by RefSeq, Jul 2016]
Form	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	69.2 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

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Concentration	>50 ug/mL as determined by microplate BCA method

GENE INFORMATION

Gene Name	DMPK dystrophia myotonica-protein kinase [Homo sapiens]
Official Symbol	DMPK
Synonyms	DM; DM1; DM1PK; DMK; MDPK; MT-PK
Gene ID	1760
mRNA Refseq	NM_001081563
Protein Refseq	NP_001075032
MIM	605377
UniProt ID	Q09013

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