Recombinant Human DMPK protein, His & T7-tagged

Cat. No. DMPK-7977H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human DMPK aa. (Met1~Ile201 (Accession # Q09013)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Met1~Ile201
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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 27.1kDa
Endotoxin	<1.0EU per 1ug (determined by the LAL method)

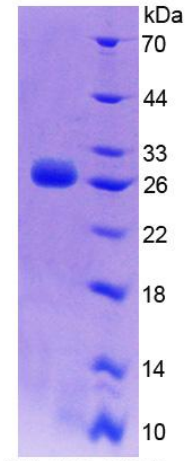
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Purity	>95%
Characteristic	The isoelectric point is 5.7.
Applications	SDS-PAGE; WB; ELISA; IP
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage Buffer	Supplied as lyophilized form in 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and preservative.
Reconstitution	Reconstitute in sterile ddH2O.

GENE INFORMATION

Gene Name	DMPK DM1 protein kinase [Homo sapiens (human)]
Official Symbol	DMPK
Synonyms	DM; DM1; DMK; MDPK; DM1PK; MT-PK; DM protein kinase; dystrophia myotonica protein kinase; myotonic dystrophy associated protein kinase; myotonin protein kinase A; thymopoietin homolog; myotonin-protein kinase

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Gene ID	1760
mRNA Refseq	NM_001081560.2
Protein Refseq	NP_001075029.1
UniProt ID	Q09013
SDS-PAGE	

15% SDS-PAGE

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