

Recombinant Mouse Dmpk Protein, His-tagged

Cat. No. Dmpk-1353M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Dmpk Protein (Met1-Lys109) with N-His tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Met1-Lys109
Description	The protein encoded by this gene is a serine/threonine protein kinase that contains coiled-coil and C-terminal membrane association domains. In the embryonic mouse, it is found in cardiac and skeletal myocytes where it appears to play a role in myogenesis. In adults, the transcript is localized to several tissues including brain, heart, and skeletal and smooth muscle, and a function in cytoskeletal remodeling has been described. Transcripts with expanded CUG repeats in the 3' untranslated region mediate alternative splicing of several genes and sequester RNA binding proteins and RNA transcripts that contain CAG repeats, resulting in myotonic dystrophy, an autosomal dominant neuromuscular disorder. Alternative splicing results in multiple protein coding and non-coding transcript variants.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 16.1 kDa Accurate Molecular Mass: 16 kDa

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Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Dmpk dystrophia myotonica-protein kinase [Mus musculus (house mouse)]
Official Symbol	Dmpk
Synonyms	DMPK; dystrophia myotonica-protein kinase; myotonin-protein kinase; DM-kinase; dystrophia myotonica kinase, B15; myotonic dystrophy protein kinase; DM; DMK; Dm15; MDPK; MT-PK;
Gene ID	13400
mRNA Refseq	NM_001190490

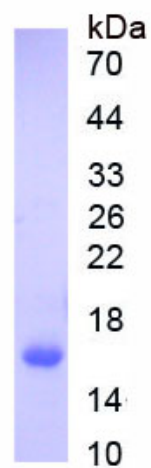
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Protein Refseq NP_001177419

UniProt ID P54265



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