

Recombinant Mouse Dmpk Protein, Myc/DDK-tagged

Cat. No. Dmpk-2586M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length dystrophin myotonic-protein kinase (Dmpk), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
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.
Molecular Mass	70.1 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

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_032418
Protein Refseq	NP_115794
UniProt ID	P54265

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