

Recombinant Human DMPK Protein (M1-P629), Tag Free

Cat. No. DMPK-0741H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human DMPK(M1-P629 end) Protein was expressed in Insect cell.
Species	Human
Source	Insect Cells
ProteinLength	M1-P629
Description	Non-receptor serine/threonine protein kinase which is necessary for the maintenance of skeletal muscle structure and function. May play a role in myocyte differentiation and survival by regulating the integrity of the nuclear envelope and the expression of muscle-specific genes. May also phosphorylate PPP1R12A and inhibit the myosin phosphatase activity to regulate myosin phosphorylation. Also critical to the modulation of cardiac contractility and to the maintenance of proper cardiac conduction activity probably through the regulation of cellular calcium homeostasis. Phosphorylates PLN, a regulator of calcium pumps and may regulate sarcoplasmic reticulum calcium uptake in myocytes. May also phosphorylate FXYP1/PLM which is able to induce chloride currents. May also play a role in synaptic plasticity.
Form	Liquid
Endotoxin	< 0.01 EU per µg of the protein
Purity	90%

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Stability	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Supplied as sterile 50 mM Tris-HCl (pH7.5), 200 mM NaCl, 20% glycerol
Shipping	It is shipped out with blue ice.

GENE INFORMATION

Gene Name	DMPK dystrophia myotonica-protein kinase [Homo sapiens (human)]
Official Symbol	DMPK
Synonyms	DMPK; dystrophia myotonica-protein kinase; myotonin-protein kinase; DM; DM protein kinase; DM1; DM1PK; DMK; dystrophia myotonica 1; MDPK; MT PK; myotonic dystrophy associated protein kinase; myotonin protein kinase A; thymopoietin homolog; DM-kinase; DM1 protein kinase; myotonic dystrophy protein kinase; MT-PK;
Gene ID	1760
mRNA Refseq	NM_001081563
Protein Refseq	NP_001075032
MIM	605377
UniProt ID	Q09013

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