

Datasheet for ABIN7563445
DMPK Protein (AA 1-631) (His tag)



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Overview

Quantity:	1 mg
Target:	DMPK
Protein Characteristics:	AA 1-631
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DMPK protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Dmpk Protein expressed in mammalian cells.
Sequence:	<p>MSAEVRLRQL QQLVLDPGFL GLEPLDLLL GVHQELGASH LAQDKYVADF LQWVEPIAAR LKEVRLQRDD FEILKVI GRG AFSEVAVVKM KQTGQVYAMK IMNKWDM LKR GEVSCFREER DVLVKGDRRW ITQLHFAFQD ENYLYLVMEY YVGGDLLTLL SKFGERIPAE MARFYLA EIV MAIDSVHRLG YVHRDIKPDN ILLDRCGHIR LADFGSCLKL QPDGMVRS LV AVGTPDY LSP EILQAVGGGP GAGSYGPECD WWALGVFAYE MFYGQTPFYA DSTAETYAKI VHYREHLSLP LADTVPEEA QDLIRGLLCP AEIRLGRGGA GDFQKHPFFF GLDWEGLRDS VPPFTPDFEG ATDTCNFDVV EDRLTAMVSG GGETLSDMQE DMPLGVRLPF VGYSYCCMAF RDNQVPDPTP MELEALQLPV SDLQGLDLQP PVSPPDQVAE EADLVAVPAP VAEAETTVTL QQLQEAL EEE VLTRQSL SRE LEAIRTANQN FSSQLQEAEV RNRDLEAHVR QLQERM EMLQ APGAAAITGV PSPRATDPPS HLDGPPAVAV GQCPLVGP GP MHRRHLLLPA RIPRPLSEA RCLLLFAAAL AAAATLGCTG LVAYTGGLTP VWC FPGATFA P Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity</p>

Product Details

of the protein could make another tag necessary. In case you have a special request, please contact us.

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Characteristics: Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

Target Details

Target: DMPK

Alternative Name: Dmpk ([DMPK Products](#))

Background: Myotonin-protein kinase (MT-PK) (EC 2.7.11.1) (DM-kinase) (DMK) (DMPK) (Myotonic dystrophy protein kinase) (MDPK),FUNCTION: 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

Target Details

myocytes. May also phosphorylate FXYD1/PLM which is able to induce chloride currents. May also play a role in synaptic plasticity. {ECO:0000269|PubMed:12612014, ECO:0000269|PubMed:15598648, ECO:0000269|PubMed:18729234, ECO:0000269|PubMed:21949239, ECO:0000269|PubMed:9294109}.

Molecular Weight: 69.6 kDa

UniProt: [P54265](#)

Pathways: [Regulation of Muscle Cell Differentiation, Synaptic Membrane, Skeletal Muscle Fiber Development](#)

Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months