

Datasheet for ABIN7563727
MYLK3 Protein (AA 1-795) (His tag)



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Overview

Quantity: 1 mg

Target: MYLK3

Protein Characteristics: AA 1-795

Origin: Mouse

Source: HEK-293 Cells

Protein Type: Recombinant

Purification tag / Conjugate: This MYLK3 protein is labelled with His tag.

Application: Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose: Custom-made recombinant Mylk3 Protein expressed in mammalian cells.

Sequence: MSGVSEEDPE GLAPQGLPAL GGACLATMDK KLNVLTEKVD RLLHFQEDVT EKLQCVCQGM
DHLEQDLHRL EASRELSLAG SGSTPPTTAQ AAWPEVLELV RAVRQEGAQH GARLEALFKM
VVAVDRAITL VGSTFQNSKV ADFIMQGTVP GRKGLADGP EENKEQAEVA GVKPNHVLTT
GGVQADASRT LWEESQKEDI PVRTVEGLPL IINTSLKGAD LTQAGASLRQ GVEVLGPGQV
PLPTEAESRL PETASENTGA TLELSVAIDR ISEVLTSKLM SQGGGQETSS SKPDCWLSEE
AMRLSSGPLP QPLGPLTPDS DIHSGDALPR IPINMQEMAT PGELLETQSG SPIGSAEAPG
LGTVLEDQIP KGARFPPLP KRSSNNGGMS AEEEIGSGAE PMRGPSLATR DWRDETVGTT
DLQQGIDPGA VSPEPGKDHA AQGPGRTEAG RLSSAAEAAI VVLDDSAAPP APFEHRVSI
KDTLISAGYT VSQHEVLGGG RFGQVHRCTE RSTGLALAAK IIKVKNVKDR EDVKNEVNIM
NQLSHVNLIQ LYDAFESKSS FTLIMEYVDG GELFDTRITDE KYHLTELDDVV LFTRQICEGV
HYLHQHYILH LDLKPENILC VSQTGHQIKI IDFGLARRYK PREKLKVNFG TPEFLAPEVV

Product Details

NYEFVSFPTD MWSVGVITYM LLSGLSPFLG ETDAETMNFV VNCSDWDFDAD TFKGLSEEA
DFVSRLLVKE KSCRMSATQC LKHEWLSHLP AKASGSNVRL RSQQLLQKYM AQS^KWKKHFH
VVTAVNRLRK FPTCP **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

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, Western Blot

Grade:

custom-made

Target Details

Target:

MYLK3

Alternative Name:

Mylk3 ([MYLK3 Products](#))

Background:

Myosin light chain kinase 3 (EC 2.7.11.18) (Cardiac MyBP-C-associated Ca/CaM kinase) (Cardiac MLCK),FUNCTION: Kinase that phosphorylates MYL2 in vitro (PubMed:18202317, PubMed:17885681). Has been proposed to be calmodulin-dependent (PubMed:17885681), although MYL2 phosphorylation has also been observed in the presence or absence of calmodulin (PubMed:18202317). Promotes sarcomere formation in cardiomyocytes and increases cardiomyocyte contractility (By similarity). {ECO:0000250|UniProtKB:E9PT87, ECO:0000269|PubMed:17885681, ECO:0000269|PubMed:18202317}.

Molecular Weight:

86.4 kDa

Target Details

UniProt: [Q3UIZ8](#)

Pathways: [Regulation of Muscle Cell Differentiation](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. 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
