

Datasheet for ABIN7554185

INPP4A Protein (AA 1-977) (His tag)



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Overview

Quantity:	1 mg
Target:	INPP4A
Protein Characteristics:	AA 1-977
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This INPP4A protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat INPP4A Protein expressed in mammalian cells.
Sequence:	<p>MTAREHSPRH GARARAMQRA STIDVAADML GLSLAGNIQD PDEPILEFSL ACSELHTPSL</p> <p>DRKPNSFVAV SVTTPPQAFW TKHAQTEIIE GTNNPIFLSS IAFFQDSLIN QMTQVKLSVY</p> <p>DVKDRSQGTM YLLGSGTFIV KDLLQDRHHR LHLTLRSAES DRVGNITVIG WQMEEKSDQR</p> <p>PPVTRSVDTV NGRMVLVDE SLTEALGIRS KYASLRKDTL LKSVFGGAIC RMYRFPTTDG</p> <p>NHLRILEQMA ESVLSLHVPR QFVKLLLEED AARVCELEEL GELSPCWESL RRQIVTQYQT</p> <p>IILTYQENLT DLHQYRGPSF KASSLKADKK LEFVPTNLHI QRMVQDDGG SDQNYDIVTI</p> <p>GAPAAHCQGF KSGGLRKKLH KFEETKKHFE ECCTSSGCQS IYIPQDVVR AKEIIAQINT</p> <p>LKTQVSYAE RLSRAAKDRS ATGLERTLAI LADKTRQLVT VCDCKLLANS IHGLNAARPD</p> <p>YIASKASPTS TEEEQVMLRN DQDTLMARWT GRNSRSSLQV DWHEEEWEKV WLNVDKSLEC</p> <p>IIQRVDKLLQ KERLHGECE DVFPCAGSCT SKKGNPDSHA YWIRPEDPFC DVPSSPCPST</p> <p>MPSTACHPHL TTHCSPPEE SSPGEWSEAL YPLLTTLTDC VAMMSDKAKK AMVFLLMQDS</p>

APTIATYLSL QYRRDVVFCQ TLTALICGFI IKLRNCLHDD GFLRQLYTIG LLAQFESLLS
TYGEELAMLE DMSLGIMDLR NVTFKVTQAT SSASADMLPV ITGNRDGFNV RVPLPGPLFD
ALPREIQSGM LLRVQPVLFN VGINEQQTLE ERFGDTSLQE VINVESLVRL NSYFEQFKEV
LPEDCLPRSR SQTCLPELLR FLGQNVHARK NKNVDILWQA AEICRRLNGV RFTSCKSAKD
RTAMSVTLEQ CLILQHEHGM APQVFTQALE CMRSEGCRRRE NTMKNVGSRK YAFNSLQLKA
FPKHYPPEG TYGKVET **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:

INPP4A

Alternative Name:

INPP4A ([INPP4A Products](#))

Background:

Inositol polyphosphate-4-phosphatase type I A (Inositol polyphosphate 4-phosphatase type I) (Type I inositol 3,4-bisphosphate 4-phosphatase) (EC 3.1.3.66),FUNCTION: Catalyzes the hydrolysis of the 4-position phosphate of phosphatidylinositol 3,4-bisphosphate (PtdIns(3,4)P2) (PubMed:20463662, PubMed:15716355). Catalyzes also inositol 1,3,4-trisphosphate and inositol 1,4-bisphosphate (By similarity). Antagonizes the PI3K-AKT/PKB signaling pathway by

Target Details

dephosphorylating phosphoinositides and thereby modulating cell cycle progression and cell survival (PubMed:30071275) (By similarity). May protect neurons from excitotoxic cell death by regulating the synaptic localization of cell surface N-methyl-D-aspartate-type glutamate receptors (NMDARs) and NMDAR-mediated excitatory postsynaptic current (By similarity). {ECO:0000250|UniProtKB:Q62784, ECO:0000250|UniProtKB:Q9EPW0, ECO:0000269|PubMed:15716355, ECO:0000269|PubMed:20463662, ECO:0000269|PubMed:30071275}., FUNCTION: [Isoform 4]: Displays no 4-phosphatase activity for PtdIns(3,4)P2, Ins(3,4)P2, or Ins(1,3,4)P3. {ECO:0000269|PubMed:9295334}.

Molecular Weight: 110.0 kDa

UniProt: [Q96PE3](#)

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