

Datasheet for ABIN7559150
INPP5K Protein (AA 1-468) (His tag)



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Overview

Quantity:	1 mg
Target:	INPP5K
Protein Characteristics:	AA 1-468
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This INPP5K protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Inpp5k Protein expressed in mammalian cells.
Sequence:	<p>MQHGDRNTPG YREGIMSAVS LRRPSAPKGF ALSVHVVTWN VASAAPTVDL SDLLQLNNQD LNLDIYIIGL QEMNFGIISL LSDAAFEDPW SSLFMDMLSP LNFVKISQVR MQGLLLLVFA KYQHLPYIQI ISTKSTPTGL YGYWGNKGGV NVCLKLYGYY VSIINCHLPP HMYNNDQRLE HFDRIEESLT FEGYDVPNIL DHDLILWFGD MNFRIEDFGL LRVQESITRK YYKELWEKDQ LFIKKNDQL LREFQEGPLL FPPTYKFDRH SNNYDTSEKK RKPWTDRIIL WRLKRQPSQA SPLASSVPTS YFLLTLKNYV SHMAYSISDH KPVTGTFDLE LNPLMSVPLI TMMPEHLWTM ENDMLISYTS TPEFLSSSWD WIGLYKVGMR HINDYVAYVW VGDNQVSYGN NPNQVYINIS AIPDTEQFL LCYYSSNNLHS VVGISQPFKI PIRSFLREDT LYEPEPQI 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.</p>

Product Details

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:

INPP5K

Alternative Name:

Inpp5k ([INPP5K Products](#))

Background:

Inositol polyphosphate 5-phosphatase K (EC 3.1.3.56) (Phosphatidylinositol-3,4,5-trisphosphate 5-phosphatase) (EC 3.1.3.86) (Phosphatidylinositol-4,5-bisphosphate 5-phosphatase) (EC 3.1.3.36) (Skeletal muscle and kidney-enriched inositol phosphatase), FUNCTION: Inositol 5-phosphatase which acts on inositol 1,4,5-trisphosphate, inositol 1,3,4,5-tetrakisphosphate, phosphatidylinositol 4,5-bisphosphate and phosphatidylinositol 3,4,5-trisphosphate. Has 6-fold higher affinity for phosphatidylinositol 4,5-bisphosphate than for inositol 1,4,5-trisphosphate (By similarity). Negatively regulates assembly of the actin cytoskeleton. Controls insulin-dependent glucose uptake among inositol 3,4,5-trisphosphate phosphatases, therefore, is the specific regulator for insulin signaling in skeletal muscle (PubMed:22247557, PubMed:22751929). {ECO:0000250|UniProtKB:Q9BT40, ECO:0000269|PubMed:22247557, ECO:0000269|PubMed:22751929}.

Molecular Weight:

54.2 kDa

UniProt:

[Q8C5L6](#)

Target Details

Pathways: [Carbohydrate Homeostasis](#), [Regulation of Carbohydrate Metabolic Process](#)

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