

Datasheet for ABIN3136413

INPP5F Protein (AA 1-1132) (His tag)[Go to Product page](#)**1** Image

Overview

Quantity:	1 mg
Target:	INPP5F
Protein Characteristics:	AA 1-1132
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This INPP5F protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MELFQAKDHY ILQQGERALW CSRRDGGGLQL RPA TDL LLA W NPICLGLVEG VIGKIQLHSD LPWWLILIRQ KALVGKLP GD HEVCKVT KIA VLSLSEMEPQ ELELELCKKH HFGINKPEKI IPSPDDSKFL LKTFTNIKSN VSAPNKKKVK ESKEKEKLER RLLEELLKMF MDSSEFYYSL TYDLTNSVQR QSTGERDGRP LWQKVDDRFF WNKYMIQALT EIGTPDVDFW IPIIQGFVQ IEELVVNYNE SSDDDKSSPE TPPQDSTCVD DIHPRFLVAL ISRRSRHRAG MRYKRRGV DK NGNVANYVET EQLIHVHHHT LSFQTRGSV PVFWSQVGYR YNPRPRLDKS EKETVDCFC A HFEEQLKIYK KQVIVNLVDQ AGREKIIGDA YLKQVLLFNN PKLTYVSFDF HEHCRGMKFE NVQTLTDAIH DIIIDMKWCW VDQAGVICKQ EGIFRVNCMD CLDRTNVVQA AIARV VMEQQ LKKLGVM PPE QPLPVKCNRT YQIMWANNGD SISRQYAGTA ALKGDFTRTG ERKLAGVMKD GVNSANRYYL SRFKDAYRQA VIDLMQGV PV TEDLYSIFTK EKEHEALHKE SQRSHQELIS QLLQSYMQLL LPGDEKFHGG WALVDCDPSL TDAHRDVEV LLLLSNAAYY VAYYDDEVDK VNQYQRLGLE DLRIEIGPE PTLFGKPKFS CMRLHYRCKE AGGYFHTLRA VPRSPEDGK
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DTLQCIAEML QITKQAMGLD VPIIEKKLER KSSKPHEDII GIRSQNQGSL AQGKSFLMSK
FSSLNQKVKQ TKSNNVIGNL RKLGNFTKPE MKVNFLKPNL KVNWLKSDSS LETMENPGVM
GNKVQGESDG DISSDNDSYH SDEFLTNSKS EEDKQLANSL ESGPIDYIL PSCGIIVSAP
RLGSRQSAS SIDVSTHAPS EAAAGPGSEL GKGLESPLKK SPSADSIHTR TGFTKPMDEVY
CQRFVQDAQN KMNDLSEIRS VAQKSEEGSH KTNRVSN EET QSEPMGQTPP RPSQLNVSCS
VAGPPFLSVE PVHSVLSQKT PSSGSSLEEL EAGLCVTPSS ESSSSRAVSP FAKIRSSMVQ
VANITQAGLT HGINLAVAKV QKSPAEP EAV NEIQQNELKN MFTQCQTRII QI

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Inpp5f Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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 will ensure that you receive a correctly folded protein.

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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm.

The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the ExPASy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
2. Protein containing fractions of the best purification are subjected to second purification step

Product Details

through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity: >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility: 0.22 µm filtered

Endotoxin Level: Protein is endotoxin free.

Grade: Crystallography grade

Target Details

Target: INPP5F

Alternative Name: Inpp5f ([INPP5F Products](#))

Background: Inositol 4-phosphatase which mainly acts on phosphatidylinositol 4-phosphate. May be functionally linked to OCRL, which converts phosphatidylinositol 4,5-bisphosphate to phosphatidylinositol, for a sequential dephosphorylation of phosphatidylinositol 4,5-bisphosphate at the 5 and 4 position of inositol, thus playing an important role in the endocytic recycling (PubMed:25869668, PubMed:25869669). Regulator of TF:TFRC and integrins recycling pathway, is also involved in cell migration mechanisms (By similarity). Modulates AKT/GSK3B pathway by decreasing AKT and GSK3B phosphorylation (PubMed:17322895). Negatively regulates STAT3 signaling pathway through inhibition of STAT3 phosphorylation and translocation to the nucleus (By similarity). Functionally important modulator of cardiac myocyte size and of the cardiac response to stress (PubMed:19875726). May play a role as negative regulator of axon regeneration after central nervous system injuries (PubMed:26203138). {ECO:0000250|UniProtKB:Q9Y2H2, ECO:0000269|PubMed:17322895, ECO:0000269|PubMed:19875726, ECO:0000269|PubMed:25869668, ECO:0000269|PubMed:25869669, ECO:0000269|PubMed:26203138}.

Molecular Weight: 128.6 kDa Including tag.

UniProt: [Q8CDA1](#)

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.

Comment: Protein has not been tested for activity yet. In cases in which it is highly likely that the

Application Details

recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

Restrictions: For Research Use only

Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value 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:	Unlimited (if stored properly)

Images



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process