

Datasheet for ABIN3095223

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

## Overview

Quantity:	1 mg
Target:	INPP5F
Protein Characteristics:	AA 1-1132
Origin:	Human
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 TDLL LAW NPICLGLVEG VIGKIQLHSD LPWWLILIRQ KALVGKLP GD HEVCKVT KIA VLSLSEMEPQ DLELELCKKH HFGINKPEKI IPSPDDSKFL LKTFTHIKSN VSAPNKKKVK ESKEKEKLER RLLEELLKMF MDESSEFYSSL TYDLTNSVQR QSTGERDGRP LWQKVDDRFF WNKYMIQDLT EIGTPDVDFW IIPMIQGFVQ IEELVVNYTE SSDDEKSSPE TPPQESTCVD DIHPRFLVAL ISRRSRHRAG MRYKRRGV DK NGNVANYVET EQLIHVHNHT LSFVQTRGSV PVFWSQVGYR YNPRRLDRS EKETVAYFCA HFEEQLNIYK KQVIINLVDQ AGREKIIGDA YLKQVLLFNN SHLTYSFDF HEHCRGMKFE NVQTLTDAIY DIILDMKWCW VDEAGVICKQ EGIFRVN CMD CLDRTNVVQA AIARVVMEQQ LKKLGVM PPE QPLPVKCNRI YQIMWANNGD SISRQYAGTA ALKGDFTRTG ERKLAGVMKD GVNSANRYYL NRFKDAYRQA VIDLMQGIPV TEDLYSIFTK EKEHEALHKE NQRSHQELIS QLLQSYM KLL LPDDEKFHGG WALIDCDPSL IDATHRDVDV LLLLSNSAYY VAYYDDEV DK VNQYQRLSLE NLEKIEIGPE PTLFGKPKFS CMRLHYRYKE ASGYFHTLRA VMRNPEEDGK
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DTLQCIAEML QITKQAMGSD LPIIEKKLER KSSKPHEDII GIRSQNQGSL AQGKNFLMSK  
FSSLNQKVKQ TKSNNVIGNL RKLGNFTKPE MKVNFLKPNL KVNWLKSDSS LETMENTGVM  
DKVQAESDGD MSSDNDYSYHS DEFLTNSKSD EDRQLANSLE SVGPIDYVLP SCGIIASAPR  
LGSRSQSLSS TDSSVHAPSE ITVAHGSGLG KGQESPLKKS PSAGDVHILT GFAKPMDIYC  
HRFVQDAQNK VTHLSETRSV SQQASQERNQ MTNQVSNETQ SESTEQTPSR PSQLDVLSLA  
TGPQFLSVEP AHSVASQKTP TSASSMLELE TGLHVTPSPS ESSSSRAVSP FAKIRSSMVQ  
VASITQAGLT HGINFAVSKV QKSPPEPEII NQVQQNELKK MFIQCQTRII QI

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

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### Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Human 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.

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### 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 ( <a href="#">INPP5F Products</a> )
Background:	<p>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:25869669). Regulator of TF:TFRC and integrins recycling pathway, is also involved in cell migration mechanisms (PubMed:25869669). 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 (PubMed:25476455). Functionally important modulator of cardiac myocyte size and of the cardiac response to stress (By similarity). May play a role as negative regulator of axon regeneration after central nervous system injuries (By similarity).</p> <p>{ECO:0000250 UniProtKB:Q8CDA1, ECO:0000269 PubMed:17322895, ECO:0000269 PubMed:25476455, ECO:0000269 PubMed:25869669}.</p>
Molecular Weight:	129.4 kDa Including tag.
UniProt:	<a href="#">Q9Y2H2</a>

## 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:	In cases in which it is highly likely that the 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

## Application Details

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