

Datasheet for ABIN3135798 PIK3C3 Protein (AA 1-887) (His tag)



[Go to Product page](#)

1 Image

Overview

Quantity:	1 mg
Target:	PIK3C3
Protein Characteristics:	AA 1-887
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PIK3C3 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	<p>MGAEKFHYI YSCDLINQV LKIGSLEGKR EQKSYKAVLE DPMLKFSGLY QETCSDLYVT</p> <p>CQVFAEGKPL ALPVRTSYKA FSTRWNWNEW LKLPVKYPDL PRNAQVALTI WDVYGPMSAV</p> <p>PVGGTTVSLF GKYGMFRQGM HDLKVWPVE ADGSEPTRTP GRTSSTLSED QMSRLAKLTK</p> <p>AHRQGHMVKV DWLDRLTFRE IEMINESEKR SSNFMVLMVE FRCVKCDDKE YGIVYYEKDG</p> <p>DESSPILTSF ELVKVPDPQM SMENLVESKH HKLARSLSRG PSDHDLKPNA TTRDQLNIIV</p> <p>SYPTKQLTY EEQDLVWKFR YYLTNQEAL TKFLKCVNWD LPQEAQALE LLGKWKPMDD</p> <p>EDSLELLSSH YTNPTVRRYA VARLRQADDE DLLMYLLQLV QALKYENFDD IKNGLEPTKK</p> <p>DSQTSASESL SNSGVSSGDI DSSQIITNPL PPVASPPAS KAKEVSDGEN LEQDLCTFLI</p> <p>SRACKNSTLA NYLYWYVIVE CEDQDTQQRD PKTHEMYLNV MRRFSQALLK GDKSVRVMRS</p> <p>LLAAQQTQVD RLVHLMKAVQ RESGNNRKKK ERLQALLGDN EKMNLSDVEL IPLPLEPQVK</p> <p>IRGIIPETAT LFKSALMPAQ LFFKTEDGGK YPVIFKHGDD LRQDQLILQI ISLMDKLLRK</p> <p>ENLDLKLTPY KVLATSTKHG FMQFIQSVPV AEVLDTESGI QNFFRKYAPS ETGPYGISAE</p>
-----------	--

VMDTYVKSCA GYCVITYILG VGDRHLDNLL LTKTGKLFHI DFGYILGRDP KPLPPPMKLN
KEMVEGMGGT QSEQYQEFRK QCYTAFLHLR RYSNLILNLF SLMVDANIPD IALEPDKTVK
KVQDKFRLDL SDEEAVHYMQ SLIDESVHAL FAAVVEQIHK FAQYWRK

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 Pik3c3 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 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

Product Details

Endotoxin Level: Protein is endotoxin free.

Grade: Crystallography grade

Target Details

Target: PIK3C3

Alternative Name: Pik3c3 ([PIK3C3 Products](#))

Background: Catalytic subunit of the PI3K complex that mediates formation of phosphatidylinositol 3-phosphate, different complex forms are believed to play a role in multiple membrane trafficking pathways: PI3KC3-C1 is involved in initiation of autophagosomes and PI3KC3-C2 in maturation of autophagosomes and endocytosis. Involved in regulation of degradative endocytic trafficking and required for the abscission step in cytokinesis, probably in the context of PI3KC3-C2. Involved in the transport of lysosomal enzyme precursors to lysosomes. Required for transport from early to late endosomes (By similarity). {ECO:0000250|UniProtKB:O88763, ECO:0000250|UniProtKB:Q8NEB9}.

Molecular Weight: 102.4 kDa Including tag.

UniProt: [Q6PF93](#)

Pathways: [AMPK Signaling](#), [Activation of Innate immune Response](#), [Inositol Metabolic Process](#), [Toll-Like Receptors Cascades](#), [Autophagy](#)

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 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

Handling

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