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PKN1 Protein (AA 2-946) (His tag)



Image



Overview

Quantity:	1 mg
Target:	PKN1
Protein Characteristics:	AA 2-946
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PKN1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:

AGDAVQSEPR SWSLLEQLGL AGADLAAPGV QQQLELERER LKREIRKELK LKEGAENLRR
ATTDLGRSLA PVELLLRGSA RRLDLLHQQL QELHAHVVLP DPAAGSDATQ SLAEGSPICS
STNLSRVAGL EKQLAIELKV KQGAENMIQT YSNGSSKDRK LLLTAQQMLQ DSKTKIDIIR
MQLRRALQAL QAGELESQAA PDEAQGDPEL GAVELRIEEL RHHFRVEHAV AEGAKNVLRL
LSGAKAPDRK AVSEAQEKLT ESNQKLGLLR ESLERRLGEL PADHPKGRLL REELTAASSS
AFSAILPGPF PATHYSTLSK PAPLTGTLEV RVVGCKNLPE TIPWSPPPSV GASGTPESRT
PFLSRPARGL YSRSGSLSGR SSLRGEAENA TEVSTVLKLD NTVVGQTAWK PCGPNAWDQS
FTLELERARE LELAVFWRDQ RGLCALKFLK LEDFLDNERH EVQLDMEPQG CLVAEVTFRN
PIIERIPRLQ RQKKIFSKQQ GKAFQRARQM NIDVATWVRL LRRLIPSAVA TGTFSPNASP
GAEIRHTGDI SMEKLNLGAD SDSSSQKSPP GLPSTSCSLS SPTHESTTSP ELPSETQETP
GPGLCSPLRK SPLTLEDFKF LAVLGRGHFG KVLLSEFRSS GELFAIKALK KGDIVARDEV
ESLMCEKRIL AAVTRAGHPF LVNLFGCFQT PEHVCFVMEY SAGGDLMLHI HSDVFSEPRA

VFYSACVVLG LQFLHEHKIV YRDLKLDNLL LDTEGYVKIA DFGLCKEGMG YGDRTSTFCG
TPEFLAPEVL TDTSYTRAVD WWGLGVLLYE MLVGESPFPG DDEEEVFDSI VNDEVRYPRF
LSAEAIGIMR RLLRRNPERR LGSTERDAED VKKQPFFRSL GWDVLLARRL PPPFVPTLSG
RTDVSNFDEE FTGEAPTLSP PRDARPLTAA EQAAFRDFDF VAGGY

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 Pkn1 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 receival 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.
- 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.

Product Details Sterility: 0.22 µm filtered Endotoxin Level: Protein is endotoxin free. Grade: Crystallography grade **Target Details** PKN1 Target: Alternative Name: Pkn1 (PKN1 Products) Background: PKC-related serine/threonine-protein kinase involved in various processes such as regulation of the intermediate filaments of the actin cytoskeleton, cell migration, tumor cell invasion and transcription regulation. Part of a signaling cascade that begins with the activation of the adrenergic receptor ADRA1B and leads to the activation of MAPK14. Regulates the cytoskeletal network by phosphorylating proteins such as VIM and neurofilament proteins NEFH, NEFL and NEFM, leading to inhibit their polymerization. Phosphorylates 'Ser-575', 'Ser-637' and 'Ser-669' of MAPT/Tau, lowering its ability to bind to microtubules, resulting in disruption of tubulin assembly. Acts as a key coactivator of androgen receptor (ANDR)-dependent transcription, by being recruited to ANDR target genes and specifically mediating phosphorylation of 'Thr-11' of histone H3 (H3T11ph), a specific tag for epigenetic transcriptional activation that promotes demethylation of histone H3 'Lys-9' (H3K9me) by KDM4C/JMJD2C. Phosphorylates HDAC5, HDAC7 and HDAC9, leading to impair their import in the nucleus. Phosphorylates 'Thr-38' of PPP1R14A, 'Ser-159', 'Ser-163' and 'Ser-170' of MARCKS, and GFAP. Able to phosphorylate RPS6 in vitro. {ECO:0000250|UniProtKB:Q16512}. Molecular Weight: 105.2 kDa Including tag. UniProt P70268 **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 gurantee though.

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options with you in detail to assure that you receive your protein of interest.

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

Application Details

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

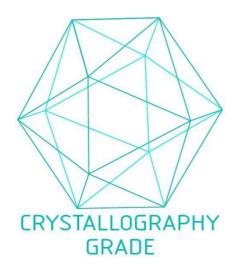


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process