

Datasheet for ABIN3094578 PNN Protein (AA 2-717) (His tag)



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1 Image

Overview

Quantity:	1 mg
Target:	PNN
Protein Characteristics:	AA 2-717
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PNN protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	<p>AVAVRTLQEQ LEKAKESLKN VDENIRKLTG RDPNDVRPIQ ARLLALSGPG GGRGRGSLLL</p> <p>RRGFSDSGGG PPAKQRDLEG AVSRLGGERR TRRESRQESD PEDDDVKKPA LQSSVWATSK</p> <p>ERTRDLIQD QNMDEKKGQR NRRIFGLLMG TLQFKQEST VATERQKRRQ EIEQKLEVQA</p> <p>EEERKQVENE RRELFEERRA KQTELRILLEQ KVELAQLQEE WNEHNAKIIK YIRTKTKPHL</p> <p>FYIPGRMCPA TQKLIEESQR KMNALFEGRR IEFAEQINKM EARPRRQSMK EKEHQVVRNE</p> <p>EQKAEQEEGK VAQREEELE TGNQHNDVEI EEAGEEEEEKE IAIVHSDAEK EQEEEEQKQE</p> <p>MEVKMEEETE VRESEKQQDS QPEEVMVDVLE MVENVKHVIA DQEVMETNRV ESVEPSENEA</p> <p>SKELEPEMEF IEIPDKECKS LSPGKENVSA LDMEKESEK EKESEPPQE PVAQPQPQSQ</p> <p>PQLQLQSQSQ PVLQSQPPSQ PEDLSLAVLQ PTPQVTQEQG HLLPERKDFP VESVKLTEVP</p> <p>VEPVLTVHPE SKSKTKTRSR SRGRARNKTS KSRSRSSSSS SSSSSSTSSS SGSSSSSGSS</p> <p>SSRSSSSSSS STSGSSSRDS SSSTSSSES RSRSRGRGHN RDRKHRRSVD RKRRDTSGLE</p> <p>RSHKSSKGGG SRDTKGSKDK NSRSDRKRSI SESSRSGKRS SRSERDRKSD RKDKRR</p>
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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.
- Human PNN Protein (raised in E. Coli) 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 bacterial culture:

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

Endotoxin Level:

Protein is endotoxin free.

Grade:

Crystallography grade

Target Details

Target:	PNN
Alternative Name:	PNN (PNN Products)
Background:	<p>Transcriptional activator binding to the E-box 1 core sequence of the E-cadherin promoter gene, the core-binding sequence is 5'CAGGTG-3'. Capable of reversing CTBP1-mediated transcription repression. Auxiliary component of the splicing-dependent multiprotein exon junction complex (EJC) deposited at splice junction on mRNAs. The EJC is a dynamic structure consisting of core proteins and several peripheral nuclear and cytoplasmic associated factors that join the complex only transiently either during EJC assembly or during subsequent mRNA metabolism. Participates in the regulation of alternative pre-mRNA splicing. Associates to spliced mRNA within 60 nt upstream of the 5'-splice sites. Component of the PSAP complex which binds RNA in a sequence-independent manner and is proposed to be recruited to the EJC prior to or during the splicing process and to regulate specific excision of introns in specific transcription subsets. Involved in the establishment and maintenance of epithelia cell-cell adhesion. Potential tumor suppressor for renal cell carcinoma. {ECO:0000269 PubMed:12051732, ECO:0000269 PubMed:14517304, ECO:0000269 PubMed:15542832, ECO:0000269 PubMed:15735603, ECO:0000269 PubMed:22388736}.</p>
Molecular Weight:	82.4 kDa Including tag.
UniProt:	Q9H307

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 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

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