

Datasheet for ABIN7561684  
**PNKP Protein (AA 1-522) (His tag)**



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## Overview

Quantity:	1 mg
Target:	PNKP
Protein Characteristics:	AA 1-522
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PNKP protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant Pnkp Protein expressed in mammalian cells.
Sequence:	<p>MSQLGSRGRL WLQSPTGGPP PIFLPSDGQA LVLGRGPLTQ VTDRKCSRNP VELIADPESR TVAVKQLGVN PSTVGVHELK PGLSGSLSLG DVLYLVNGLY PLTLRWEELS TSGSQPDAPP DTPGDPEEGE DTEPQKKRVR KSSLGWESLK KLLVFTASGV KPQGKVAAFD LDGTLITTRS GKVFPTSPSD WRILYPEIPK KLQELAAEGY KLVIFTNQMG IGRGKLP AEV FKGKVEAVLE KLGVPFQVLV ATHAGLNRKP VSGMWDHLQE QANEGIPISV EDSVFGDAA GRLANWAPGR KKKDFSCADR LFALNVGLPF ATP EEF LKW PAARFELPAF DPRTISSAGP LYLPESSLL SPNPEVVAV GFP GAGKSTF IQEHLVSAGY VHVNRDTLGS WQRCVSSCQA ALRQGKRVI DNTNPDPVSR ARYIQCAKDA GVPCRCFNFC ATIEQARHNN RFREMTDPSH APVSDMVMFS YRKQFEPPTL AEGFLEILEI PFRLQEHLDP ALQRLYRQFS EG <b>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</b></p>

## Product Details

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**Specificity:** If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

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**Characteristics:** **Key Benefits:**

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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 try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

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**Purity:** > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

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**Grade:** custom-made

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## Target Details

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**Target:** PNKP

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**Alternative Name:** Pnkp ([PNKP Products](#))

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**Background:** Bifunctional polynucleotide phosphatase/kinase (DNA 5'-kinase/3'-phosphatase) (Polynucleotide kinase-3'-phosphatase) [Includes: Polynucleotide 3'-phosphatase (EC 3.1.3.32) (2'(3')-polynucleotidase), Polynucleotide 5'-hydroxyl-kinase (EC 2.7.1.78)],FUNCTION: Plays a key role in the repair of DNA damage, functioning as part of both the non-homologous end-joining (NHEJ) and base excision repair (BER) pathways. Through its two catalytic activities, PNK ensures that DNA termini are compatible with extension and ligation by either removing 3'-phosphates from, or by phosphorylating 5'-hydroxyl groups on, the ribose sugar of the DNA backbone. {ECO:0000250|UniProtKB:Q96T60}.

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**Molecular Weight:** 57.2 kDa

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**UniProt:** [Q9JLV6](#)

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## Target Details

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Pathways: [DNA Damage Repair, Nucleotide Phosphorylation](#)

## Application Details

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Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: The buffer composition 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: 12 months