

Datasheet for ABIN7550768 PNKP Protein (AA 1-521) (His tag)



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Overview

Quantity:	1 mg
Target:	PNKP
Protein Characteristics:	AA 1-521
Origin:	Human
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:	MGEVEAPGRL WLESPPGGAP PIFLPSDGQA LVLGRGPLTQ VTDRKCSRTQ VELVADPETR
	TVAVKQLGVN PSTTGTQELK PGLEGSLGVG DTLYLVNGLH PLTLRWEETR TPESQPDTPP
	GTPLVSQDEK RDAELPKKRM RKSNPGWENL EKLLVFTAAG VKPQGKVAGF DLDGTLITTR
	SGKVFPTGPS DWRILYPEIP RKLRELEAEG YKLVIFTNQM SIGRGKLPAE EFKAKVEAVV
	EKLGVPFQVL VATHAGLYRK PVTGMWDHLQ EQANDGTPIS IGDSIFVGDA AGRPANWAPG
	RKKKDFSCAD RLFALNLGLP FATPEEFFLK WPAAGFELPA FDPRTVSRSG PLCLPESRAL
	LSASPEVVVA VGFPGAGKST FLKKHLVSAG YVHVNRDTLG SWQRCVTTCE TALKQGKRVA
	IDNTNPDAAS RARYVQCARA AGVPCRCFLF TATLEQARHN NRFREMTDSS HIPVSDMVMY
	GYRKQFEAPT LAEGFSAILE IPFRLWVEPR LGRLYCQFSE G 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.

Product Details

Product Details	
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.
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.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made
Target Details	
Target:	PNKP
Alternative Name:	PNKP (PNKP Products)
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 (PubMed:10446192,
	DubMod:10446102 DubMod:15205060 DubMod:20052255 DubMod:20452705) Through ita

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PubMed:10446193, PubMed:15385968, PubMed:20852255, PubMed:28453785). Through its

ligation by either removing 3'-phosphates from, or by phosphorylating 5'-hydroxyl groups on, the

two catalytic activities, PNK ensures that DNA termini are compatible with extension and

ribose sugar of the DNA backbone (PubMed:10446192, PubMed:10446193).

{ECO:0000269|PubMed:10446192, ECO:0000269|PubMed:10446193,

ECO:0000269|PubMed:15385968, ECO:0000269|PubMed:20852255,

Target Details

	ECO:0000269 PubMed:28453785}.	
Molecular Weight:	57.1 kDa	
UniProt:	Q96T60	
Pathways:	DNA Damage Repair, Nucleotide Phosphorylation	
Application Details		
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		
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	