

Recombinant Human PNKP Protein (1-521 aa), His-SUMO-tagged

Cat. No. PNKP-1109H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PNKP Protein (1-521 aa) is produced by E. coli expression system. This protein is fused with a 6xHis-SUMO tag at the N-terminal. Research Area: Epigenetics and Nuclear Signaling. Protein Description: Full Length.
Species	Human
Source	E.coli
ProteinLength	1-521 aa
Description	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 roving 3'-phosphates from, or by phosphorylating 5'-hydroxyl groups on, the ribose sugar of the DNA backbone.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	73.1 kDa
AA Sequence	MGEVEAPGRLWLESPPGGAPPIFLPSDGQALVLGRGPLTQVTDKCSRTQVELVAD PETRTVAVKQLGVNPSTTGTQELKPGLEGLSGVGDLYLVNGLHPLTLRWEETRTP ESQPDTPPGTPLVSQDEKRDAELPKRMRKSNPGWENLEKLLVFTAAGVKPQGKV AGFDLDGTLITRSGKVFPTGPSDWIRILYPEIPRKLRELEASEYKLVIFTNQMSIGRG

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

KLPAEEFKAKVEAVVEKLGVPFQVLVATHAGLYRK PVTGMWDHLQE QANDGTPISI
 GDSIFVGDAAGR PANWAPGRKKKDFSCADRLFALNLGLPFATPEEFFLKWPAAGFE
 LPAFDPRTVSRSGPLCLPESRALLSASPEVVAVGFPGAGKSTFLKKHLVSAGYVHV
 NRDTLGSWQRCVTT CETALKQGRVAIDNTNPDAASRARYVQCARAAGVPCRCFL
 FTATLEQARHNNRFREMTDSSHIPVSDMVMYGYRKQFEAPTLAEGFSAILEIPFRLW
 VEPRLGRLYCQFSEG

Purity > 90% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

Storage The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA with concentration instruction is sent along with the products.

GENE INFORMATION

Gene Name PNKP polynucleotide kinase 3-phosphatase [Homo sapiens]

Official Symbol PNKP

Synonyms PNKP; PNK; MCSZ; EIEE10;

Gene ID 11284

mRNA Refseq NM_007254

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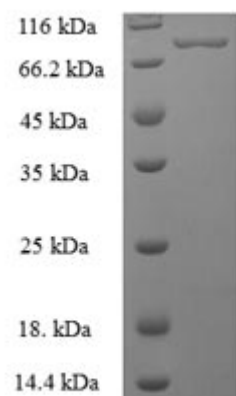
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Protein Refseq NP_009185

MIM 605610

UniProt ID Q96T60



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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