

Recombinant Full Length Human PNKP Protein, GST tagged

Cat. No. PNKP-20HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human PNKP full-length ORF (NP_009185.2, 1-521 a.a.) recombinant protein with GST-tag at N-terminal was expressed in Wheat Germ (in vitro).
Species	Human
Source	Wheat germ cell free in vitro
ProteinLength	1-521 aa
Description	This locus represents a gene involved in DNA repair. In response to ionizing radiation or oxidative damage, the protein encoded by this locus catalyzes 5' phosphorylation and 3' dephosphorylation of nucleic acids. Mutations at this locus have been associated with microcephaly, seizures, and developmental delay.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH 8.0 in the elution buffer.
Molecular Mass	83.5 kDa
AASequence	MGEVEAPGRLWLESPPGGAPPIFLPSDGQALVLGRGPLTQVTDRKCSRTQVELVAD PETRTVAVKQLGVNPSTTGTQELKPGLEGLVGDLYLVNGLHPLTLRWEETRTP ESQPDTPPGTPLVSQDEKRDAELPKRMRKSNPGWENLEKLLVFTAAGVKPQGKV AGFDLDGTLITRSGKVFPTGPSDWIRILYPEIPRKLRELEAEGYKLVIFTNQMSIGRG KLPAEEFKAKVEAVVEKLGVPFQVLVATHAGLYRKPVTGMWDHLQEQAQNDGTPISI GDSIFVGDAAGR PANWAPGRKKKDFSCADRLFALNLGLPFATPEEFFLKWPAAGFE LPAFDPRTVSRSGPLCLPESRALLSASPEVVAVGFPGAGKSTFLKKHLVSAGYVHV

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NRDTLGSWQRCVTTTCETALKQGKRVAIDNTNPDAASRARYVQCARAAGVPCRCFL
FTATLEQARHNNRFREMTDSSHIPVSDMVMYGYRKQFEAPTLAEGFSAILEIPFRLW
VEPRLGRLYCQFSEG

Applications

Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein)
Antibody Production Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Quality Control
Testing**

12.5% SDS-PAGE Stained with Coomassie Blue.

GENE INFORMATION

Gene Name

PNKP polynucleotide kinase 3'-phosphatase [Homo sapiens (human)]

Official Symbol

PNKP

Synonyms

PNKP; polynucleotide kinase 3'-phosphatase; PNK; AOA4; MCSZ; CMT2B2; EIEE10;
bifunctional polynucleotide phosphatase/kinase; DNA 5'-kinase/3'-phosphatase;
Homo sapiens polynucleotide kinase 3'-phosphatase (PNKP); EC 2.7.1.78; EC
3.1.3.32

Gene ID

11284

mRNA Refseq

NM_007254

Protein Refseq

NP_009185

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MIM	605610
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UniProt ID	Q96T60
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