

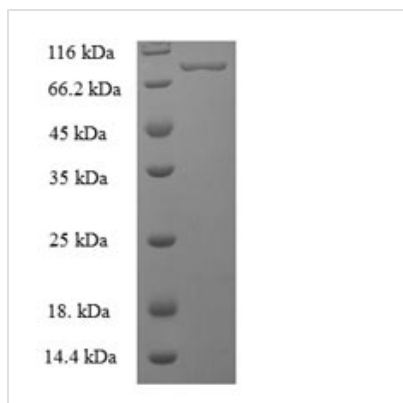


Recombinant Human Bifunctional polynucleotide phosphatase/kinase (PNKP)

Product Code	CSB-EP857031HU
Relevance	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.
Abbreviation	Recombinant Human PNKP protein
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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q96T60
Alias	DNA 5'-kinase/3'-phosphatase Polynucleotide kinase-3'-phosphatase 2 domains: Polynucleotide 3'-phosphatase (EC:3.1.3.32) ;2'(3')-polynucleotidase Polynucleotide 5'-hydroxyl-kinase (EC:2.7.1.78)
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	≥ 90% as determined by SDS-PAGE.
Sequence	MGEVEAPGRLWLESPPGGAPPFLPSDGQALVLGRGPLTQVTDKCSRTQVE LVADPETRTVAVKQLGVNPSTTGTQELKPGLEGLVGDVTLVNLHPLTLR WEETRTPEQPDTTPPGTPLVSQDEKRDAELPKKRMRKSNPGWENLEKLLVFT AAGVKPQGGKVGAFDLDTLITRSGKVFPTGPSDWRIYPEIPRKLRELEAEGY KLVIFTNQMSIGRGKLPAAEFKAKVEAVVEKLGVPFQVLVATHAGLYRKPVTG MWDHLQEQANDGTPISIGDSIFVGDAAGRPANWAPGRKKKDFSCADRLFALN LGLPFATPEEFFLKWPAAGFELPAFDPRTVSRSGPLCLPESRALLSASPEVVV AVGFPGAGKSTFLKKHLVSAGYVHVNRDRTLGSWQRCVTTTCETALKQGKRVAI DNTNPDAASRARYVQCARAAGVPCRCFLFTATLEQARHNNRFREMTDSSHIP VSDMVMYGYRKQFEAPTLAEGFSAILEIPFRLWVEPRLGRLYCQFSEG
Research Area	Epigenetics and Nuclear Signaling
Source	E.coli
Target Names	PNKP
Expression Region	1-521aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged
Mol. Weight	73.1kDa

**Protein Length**

Full Length

Image

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

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.