

## Recombinant Human PRKDC Protein

Cat. No. PRKDC-860H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human PRKDC Protein was expressed in HeLa cells.
<b>Species</b>	Human
<b>Source</b>	HeLa
<b>Description</b>	DNA-Dependent Protein Kinase (DNA-PK) phosphorylates several DNA-binding substrates in vitro, including the tumor suppressor protein p53, the SV40 large T antigen and several transcription factors. DNA-PK is thought to play a role in controlling gene regulation and cell growth.
<b>Form</b>	25mM HEPES (pH 7.5), 50mM KCl, 0.2mM EDTA, 10mM MgCl <sub>2</sub> , 1mM DTT, 10% glycerol.
<b>Molecular Mass</b>	DNA-Dependent Protein Kinase (DNA-PK) consists of an approximate 460kDa catalytic subunit and a heterodimeric DNA-binding subunit (Ku) containing a 85kDa and a 70kDa peptide (1). It is purified from HeLa cells.
<b>Unit Definition</b>	One unit is defined as the amount of enzyme required to transfer 1pmol of phosphate to DNA-Dependent Protein Kinase Peptide Substrate in 1 minute at 30 centigrade.
<b>Storage</b>	DNA-PK is stable at 4 centigrade for 1 hour. Avoid multiple freeze-thaw cycles or exposure to frequent temperature changes. These fluctuations can greatly alter product stability.

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## GENE INFORMATION

**Gene Name** PRKDC protein kinase, DNA-activated, catalytic polypeptide [ Homo sapiens ]

**Official Symbol** PRKDC

**Synonyms** PRKDC; protein kinase, DNA-activated, catalytic polypeptide; HYRC, HYRC1; DNA-dependent protein kinase catalytic subunit; DNA PKcs; DNAPK; DNP1; p350; XRCC7; p460; DNA-PK catalytic subunit; hyper-radiosensitivity of murine scid mutation, complementing 1; HYRC; HYRC1; DNA-PKcs;

**Gene ID** 5591

**mRNA Refseq** NM\_001081640

**Protein Refseq** NP\_001075109

**MIM** 600899

**UniProt ID** P78527

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