Recombinant Human PRKDC Protein

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

SPECIFICATION

Product Overview	Recombinant Human PRKDC Protein was expressed in HeLa cells.
Species	Human
Source	HeLa
Description	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.
Form	25mM HEPES (pH 7.5), 50mM KCl, 0.2mM EDTA, 10mM MgCl2, 1mM DTT, 10% glycerol.
Molecular Mass	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.
Unit Definition	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.
Storage	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; DNPK1; 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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