

## DNA-PK Substrate

Cat. No.:	HY-P5429
CAS No.:	146064-85-9
Molecular Formula:	C <sub>82</sub> H <sub>123</sub> N <sub>19</sub> O <sub>24</sub>
Molecular Weight:	1758.97
Sequence:	Glu-Pro-Pro-Leu-Ser-Gln-Glu-Ala-Phe-Ala-Asp-Leu-Trp-Lys-Lys
Sequence Shortening:	EPPLSQEAFADLWKK
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

### BIOLOGICAL ACTIVITY

#### Description

DNA-PK Substrate is a biological active peptide. (A substrate for DNA-dependent protein kinase (DNA-PK), phosphorylation. DNA-PK is essential for the repair of DNA double-strand breaks. This peptide corresponding to 11–24 amino acids of human p53 with threonine 18 and serine 20 changed to alanine is used as a substrate for the assay of DNA-PK activity. Pyroglutamyl (pGlu) peptides may spontaneously form when either Glutamine (Q) or Glutamic acid (E) is located at the sequence N-terminus. The conversion of Q or E to pGlu is a natural occurrence and in general it is believed that the hydrophobic  $\gamma$ -lactam ring of pGlu may play a role in peptide stability against gastrointestinal proteases. Pyroglutamyl peptides are therefore considered a normal subset of such peptides and are included as part of the peptide purity during HPLC analysis.)

**Caution: Product has not been fully validated for medical applications. For research use only.**

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